

SEQUENCE LISTING

<110> Sun, Yongming
 Recipon, Herve
 Salceda, Susana
 Liu, Chenghua
 Turner, Leah

<120> Compositions and Methods Relating to Breast Specific
 Genes and Proteins

<130> DEX-0249

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<150> 60/243,802

<151> 2000-10-27

<160> 282

<170> PatentIn Ver. 2.1

<210> 1

<211> 207

<212> DNA

<213> Homo sapiens

<400> 1

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<211> 503

<212> DNA

<213> Homo sapiens

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<221> unsure

<222> (492)

<223> a, c, g or t

<400> 2

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accagtgttt ccctagtact taacatgggt ttattacatt tttttgacaa aaattcaaaa 180
ttacatatat tttgttcttc attagcaagt cacacathtt aaaatggcac actcccttcc 240
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tgtgttattt cagacacatc agtgatcagt ttagaagata ggatgatttc actaagctta 420
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503

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<210> 3

<211> 603

<212> DNA

<213> Homo sapiens

<400> 3

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accagtgttt ccctagtact taacatgggt ttattacatt tttttgacaa aaattcaaaa 180
ttacatatat tttgttcttc attagcaagt cacacathtt aaaatggcac actcccttcc 240
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tgtgttattt cagacacatc agtgatcagt ttagaagata ggatgatttc actaagctta 420
taattcatct taaagctcac ctaaataaaa gtaagtgact aaaatgatct ttttcttcca 480
ggagaggtag gattaattaa tggataaatg tgtggaatat ttcaggctta tctgattctt 540
ccatcttaaa tctttgagag ttttaaacac attatgtgtc cattactgtt tatatcacat 600
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603

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<211> 534

<212> DNA

<213> Homo sapiens

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<221> unsure

<222> (133)

<223> a, c, g or t

<400> 4

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tgacaggacg ganggaggga aagaagggaag aggaaaaaag aaaggacagg agaaaggag 180
gaaggcttct gccaaaaaat taaaatcaaa tttttgacat tctttttgtt tgcccttttt 240
gaaacaaaat gacacttgcc agacaccagc ttcctggccc atgtcctggc ccttgggtatc 300
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ttgaagactc tggctctctc tcctgctgga agagctcccc aggggccacc aggagccagg 480
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534

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 <213> Homo sapiens

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 gcactgtgcc agacactgga gataataaaag aaaaacagca ctgggcctat aattgggagt 180
 ctagatatac gatatggaaa tgcagctgac aatgcaagga gcaagaggac tcgcacagt 240
 gtgcatggca gcttgctgtc attttctggg cacagaaagt gcgatggaag ggaatgagaa 300
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 ctgtgggctc cagtattctg gcgagcatca gcttattctc ggcttagtct tcttgctcta 840
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 ctgtaaaatc caagctctgc acaaacc 928

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 <211> 368
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (305)
 <223> a, c, g or t

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 aacatagaat aactctttat tgactcaaga ctggaatttt cagaaaagt taaattttta 180
 ttttttctag aattttcaga aaagttaaat agatctgaga catttttaaa tcttttaatc 240
 tttctagcta tttgtgaata tgcttttctt ctttttaaat aaatataata gctggtatgt 300
 aaganagcta ttgatgcata tttttatttg gatattctat tgaactctta attggaataa 360

<210> 7
 <211> 583
 <212> DNA
 <213> Homo sapiens

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 <222> (61)..(80)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (495)
 <223> a, c, g or t

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 taattgggat ttattcaaat cttcttttat atccatccca taaagttttg taatttttcc 180
 ttattggcct aacaattcct gtaaagatta tttgtaagta gttaataatt tttgtaatca 240
 tgatgagttt aacactttta ttttattaca tgtgctcata tgttggtgct gacactaaga 300
 aacctatagg tcaaaagatg caaactaggg ccacatgagc acggcagcac ccagccagga 360
 ctctgctgca gctgccgttt gtagatggag ctctctgtct ccaaagaagc acaggcctgt 420
 tgttcttctg gttgtgctac agtaaaatga acctggggttt tctgaacatg tggttgaatg 480
 tcagttgcta cctancgttt cacttgatgat attgatttta ttaatcttaa agttatgtga 540
 atgttaacta tttctcatat ctatatctta ttcaaaatct ggg 583

<210> 8
 <211> 118
 <212> DNA
 <213> Homo sapiens

<400> 8
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 tatgtttctt aattgtacca tgaattacaa aaacctattg gcaagatcag tcttattt 118

<210> 9
 <211> 502
 <212> DNA
 <213> Homo sapiens

<400> 9
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tcttagtcaa atcacttaaa tcaggaacct ttaagattca gtttaatcag ttttgtatat 180
aaagtattag acttactttc accatttttg cccaaaaaca aacttctgta cttcattaaa 240
taacatcaac aaaagtaaaa agctaacatc aacctaggaa aaccattttc accgtaacag 300
ttatgtatat taactatatt atatactttt aaattagtaa aaaaaagggg aaaagacatg 360
aacaattatc aaaggaaaaa aatcctgaaa tattcaaatag tttaccttac taaaggaatt 420
cttaatctgc tgattatggt tcttaattgt accatgaatt acaaaaacct attggcaaga 480
tcagtcttat ttaaaaaaaaa aa
502

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<210> 10
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<212> DNA
<213> Homo sapiens

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<223> a, c, g or t

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<220>
<221> unsure
<222> (214)
<223> a, c, g or t

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<220>
<221> unsure
<222> (300)
<223> a, c, g or t

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<220>
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<222> (304)..(324)
<223> a, c, g or t

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<220>
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<223> a, c, g or t

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<220>
<221> unsure
<222> (381)
<223> a, c, g or t

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nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 180
nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nacnctgtatt cctttcttga gactctaggg 240
gaatctctttt tcttgccctt tctggcttct agaacctgcc tacattcttt ggctagtggg 300
ccnnnnnnnnn nnnnnnnnnnn nnnngtggct ggctagctct tctctgatgt tatctttctg 360
gttctganc c ttccatctcc ntcttcgcca 390

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<210> 11
<211> 266
<212> DNA
<213> Homo sapiens

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<400> 11
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taggtatctt ctttctacac ggattgtgtt tctgccctca aggaaaatag ttcactttga 180
ccactgtaaa tgatgtagta tttaaacaaa aggaaaagca cttcattgtc tgctctaaaa 240
ctaaaatgtt aagaaagaga ggtggc 266

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<210> 12
<211> 380
<212> DNA
<213> Homo sapiens

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<400> 12
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tctttgtccc agcctccaga tcagcagtca gtactccctt ctcccaacct gtaggaagta 180
cttgtgaaaa gttatctatc cctgggtctga gtgggaggtt cttaacctca ttgatgtttt 240
agtgtgactt gtctacattt gtgtgctccc ttogtcatct gcagaggata tgagaaaaga 300
aacaaatgaa caaaaagtgg agatagcgcc ttctatttca ttcttcattt ggtatgggta 360
tagttaagag aggtgagcca 380

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<210> 13
<211> 871
<212> DNA
<213> Homo sapiens

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ctggaactac aggcgcatac caccaagcct ggctaatttt ttaattaaga cagggtctac 180
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caaagtgata ggattacagg catgagccac cagcccagc ctggctcacc tctcttaact 300
ataaccatac caaatgaaga atgaatagga aggcgctatc tccacttttt gttcatttgt 360
ttcttttctc atatcctctg cagatgacga agggagcaca caaatgtaga caagtcacac 420

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taaaacatca atgaggttaa gaacctccca ctcagaccag ggatagataa ctttcacagt 480
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 acaagcaaaa aaagcctatt accattacct gtatccaaat tccagcagca acgatggcga 600
 agagcctcat agcagatgtg gcagtggccg ccacttccca tgacaaaagg aggtaggcat 660
 gattcatctc tagtgcattg ggacgggttc cttttgcccc aaatcaactc aagacccctt 720
 tccaccatat gtctgtatgt aactctaaat gcattctctaa gacttaagaa taaaaagcca 780
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 ctgctccaaa ttacagaact ttctaaacgt c 871

<210> 14
 <211> 411
 <212> DNA
 <213> Homo sapiens

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 taaaaacttt ttaccacaaat aaattttgga agtttaaatt ccacaaatga tactaatgaa 180
 agtataaatc attttgggtt gttttttaaa aaattatggt tcaatctgtc attattggaa 240
 taaagtgtat aaactgcatg ttataaaacg gctttacaca tatataactc atgaactcaa 300
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 tttaaaagac tgaagataga aaagagaaat taaactatgt attgacttaa t 411

<210> 15
 <211> 737
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (657)
 <223> a, c, g or t

<220>
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 <222> (709)
 <223> a, c, g or t

<220>
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 <222> (716)
 <223> a, c, g or t

<220>
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 <222> (721)

<223> a, c, g or t

<400> 15

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gcagtcactc ctatcaatca gagatcggac catggcaggc aactcagca aagtccccca 540
tgatccagaa gacatgtgcg aattctgcat catcttcccc tccataatcc tgaggacagt 600
gagagccaag gtaaggacct tgacacacag attcgttacc aggaggaatt ctttgcntac 660
tgaatcattc tgaatatatc ggatttgtct aaatagatcc cacctgccnt cccatntact 720
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<210> 16

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<212> DNA

<213> Homo sapiens

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<221> unsure

<222> (90)

<223> a, c, g or t

<220>

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<222> (1002)

<223> a, c, g or t

<220>

<221> unsure

<222> (1054)

<223> a, c, g or t

<220>

<221> unsure

<222> (1061)

<223> a, c, g or t

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<221> unsure

<222> (1066)

<223> a, c, g or t

<400> 16

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aacctctatg tcatattgga atagactcta gcacagtggg tatagggtcc tactaaaaga 180
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gaccttgaca cacagattcg ttaccaggag gaattctttg cntactgaat cattctgaat 1020
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<210> 17

<211> 128

<212> DNA

<213> Homo sapiens

<400> 17

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ggcgcagt 128
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<210> 18

<211> 465

<212> DNA

<213> Homo sapiens

<400> 18

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gaaggagaga gtgagtgagc aaatgactga aagcagccag cattgccggg accctgccgc 60
atctcactat ggggtgctgca caggcagcgt tcctcctctt gtggcgcttg ggaaatagac 120
attaatcaca cacaacaaa aacgatggca aattgtaatg agggctatga aagggagtga 180
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<210> 19
<211> 539
<212> DNA
<213> Homo sapiens

<400> 19
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aggaaaggag acagctcctc cgggaaatct agaggaattt gcattctctg cctgagctgg 240
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ttaaaaaaat cagtagttac attttatgtt taccaataga tttatatagc aaatgatatt 360
tggttttttat ttaaagccac aatatcaagt gtctttttta aaatataaat aataatcctc 420
atggtatgca gatgtagcag aaaattgtgc aggtggtatg tgggcaactg gatttgggga 480
aatgctgctg catgtcatgc actctccata ggtagggttt cccctttatt tcctccctc 539

<210> 20
<211> 641
<212> DNA
<213> Homo sapiens

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cattctccat cagctggtca aaggaacagg agctctgcat cctgtcctgc tcagtagagg 180
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tggttttttat ttaaagccac aatatcaagt gtctttttta aaatataaat aataatcctc 420
atggtatgca gatgtagcag aaaattgtgc aggtggtatg tgggcaactg gatttgggga 480
aatgctgctg catgtcatgc acctctccat aggtagggtt tccccctta ttttctccct 540
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<210> 21
<211> 406
<212> DNA
<213> Homo sapiens

<220>
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<222> (379)
<223> a, c, g or t

<400> 21

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acattcatgc agccagcctt acctagagtc acagtcaatt gtggccaact tggcaagatt 180
tgaacatcac tgataagcaa tctttctctc aatgctgcat ctctccagct tgttctttcc 240
ctaccatccc ccacgtatga ctaaagttat agcattgact gaaatctttg ggattaaagc 300
cctgtgatct gactgagaaa aacctgttga gccattacct acaatttaca caaacaatt 360
tcttcgattt gtcttttang gctggcccga aggcatttac atttga 406

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<210> 22
<211> 467
<212> DNA
<213> Homo sapiens

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<400> 22
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tctcgcttct aggccttttg gtggcatttt ctagtctacc tctaagctct agggaatcgt 180
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aaacaatcaa acctggcagt attgagttac ctctctctta tcataaagtc tttcctcact 300
tcctccttat tgtgaacttt cttaagaagt gagtccagga ggaagcagt acatgaattt 360
attaacttga ctcagacttc taaagacaac acaaactggg cgccccattc agagagtgac 420
agggaaaccc cgtggcataa ttagttacta cgagtttcca aatagga 467

```

```

<210> 23
<211> 1328
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (300)..(472)
<223> a, c, g or t

```

```

<400> 23
gcacagattt agccttggtt tttttttctg ggaagtataa aagacttttg tgttctgtct 60
ttttgttttc aatttctctc tagaggaatt taaaaccgga tatttccatc ttaaagttct 120
tgagcaagtc tgtcaagggtg tccatatttc ttaccctggt cctctcagca tcgaagtgt 180
atctctgtta cactcatggt tgctgttcac aatggagtac taatgaaata gcaaaattaa 240
gctaccggca tgggtgcta aactgaaact aaaaatcggg ttggagcttt tctgtttggn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnaagaaaag 480
aaaaggggtca cttggcacta ggtcttcaca ggtaaagatt cagagtgtga taggaagcac 540
aggctcaggc acccgggtct aatcaatgac aatctcgctt ctaggccttt tgggtggcatt 600
ttctagtcta cctctaagct ctagggaatc gtgtggctaa aatcttcctt cctgctgaga 660
ctcagagaat accatgttgg ccaagatctc taaaacaatc aaacctggca gtattgagtt 720

```

```

accttcctct tatcataaag tctttcctca ctctcctctt attgtgaact ttcttaagaa 780
gtgagtccag gaggaagcag tgacatgaat ttattaactt gactcagact tctaaagaca 840
acacaaactg ggcgccccat tcagagagtg acagggaaac cccgtggcat aattagttac 900
ctacgagttt ccaaatagga tttggaagga gacatacaac taggtcgccg gcgtggcaca 960
tggttccct gaagccagca ttgcctggcc aaggaagctt tgcagaacag atgagatttc 1020
agctgggact tgcagccaag tgggatttg ctttttgggg agaagggaaa gggcattcaa 1080
aggccaggga cagagtatgg tcaaaggcat ggagatgagg aagaggggac cagagcagag 1140
ggtcagggtg gaaagcgagt tgggggtcaat ctgcaaagg gctgacgtgc caggtaaaaa 1200
acaggagcac cgtttagttt tgtcggatca ttccaggtgg aagggcagtg ggaatgttg 1260
agaaaacact ttttggtgtc gttacattga atctgctcat ctataagaat aaaactttat 1320
ttcataga 1328

```

```

<210> 24
<211> 550
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (352)..(371)
<223> a, c, g or t

```

```

<400> 24
ctcatacctc ccctggtcca gatcatgatt caggtctttg ttctaggatt cctggcttat 60
tatctggttt atttcaataa caaggacaat aagtcatggg tatgattttt ctgtttcatg 120
gagtgagtga acattttatc tcattccagg aatttgtttt ttccaacta ttgttgcttt 180
ttgggttggt tttaaatatt cctttaccaa gaaattcatt cattagtcta cattttcagc 240
tttattagca taggagtcct aataacattt tgtgtatggt ttcattcacct agtgattggt 300
tgctaattcc tcaccttttc tttaggtcac tgttctttat acattgggta tnnnnnnnnn 360
nnnnnnnnnn ngcatttaag tttttacttt ttatgagaca aatgtatttg cgttccatag 420
atgtcagtta gaaatgtttt caacatcatg gttctctaca aactttgtga tttcagttac 480
atttccacat tgactcaaca gttatttaat agtgagctct ttttttttta agacgtagtc 540
tgactctggt 550

```

```

<210> 25
<211> 150
<212> DNA
<213> Homo sapiens

```

```

<400> 25
gattcagccc gtgacccctt actggatcct gggtgaaagc aaaagcagct ctaaaggaca 60
ctttgcagac taaatgttag ctaacaccat tgtatcagtg agaaagtgca gagtgtgggtg 120
agtccattga ggctctgtag aagaaagtc 150

```

```

<210> 26

```

<211> 192
 <212> DNA
 <213> Homo sapiens

<400> 26
 aaaaagtcaa tgtcataaaa gacaaagaaa ggctgaagaa gtgattcagc ccgtgaccc 60
 tgactggatc ctgggtgaaa gcaaaagcag ctctaaagga cactttgcag actaaatggt 120
 agctaaccac attgtatcag tgagaaagtg cagagtgtgg tgagtccatt gaggcctctgt 180
 agaagaaagt cc 192

<210> 27
 <211> 747
 <212> DNA
 <213> Homo sapiens

<400> 27
 gagctttgca gggatttagc ttttctcagg gccacctgcc ctcaggcttc ctgggccctc 60
 atacttcttc ttgtttatat cttatctgcc tttgggggaa tgaccttaga ggaattgggtg 120
 tgagtaagcc atgaggttct tgggtccacct ccatccagcc aagggcagct ggcagctggg 180
 cacttacatc cagcaaggca gaagcaaccc tggctttgaa gtcagactgc taggggtgagt 240
 ctgaatggcc tcggggaaaag ttccctctga gccttcgttt ttttcacttg tgaaggcgat 300
 agtctcgcct agcttgaggg tttatcaggg ggattcagtg agaacctcat ttgaagcagc 360
 tgcttttagtt cctaaccact aataaatggt taaccactta cctcctctc ccaccacct 420
 ttcaactttg aacctcttcc tccatgtcat cccttcttaa ggcgctgacc ttttggccac 480
 aaagaatggc tctttttggt cccatcagga ctagaattct tatctttttg ttgcttggcc 540
 ctggtaatca aagaaccacc aacacatttg caaggcatct ccagccttct cgttctggcc 600
 gccctctct gtcttaggga gagtgtata ctggcatggt gatgagatga acgaaagggc 660
 agtctctggc tgttttctgc tgatgaggat gtgctgagca gcctcctgca aatgagaagc 720
 agggaaaaga ccaactagc ttagctc 747

<210> 28
 <211> 184
 <212> DNA
 <213> Homo sapiens

<400> 28
 taagctcgga attcggtcgc aggcattgcca gtctttgggg catatggatg gtggatgtgg 60
 cttgcctttt caccctctga cattgttgat gaggagaaac ttccaatttt gatgtagtcc 120
 acaatattaa tatttctcat aggccaccac acccagccta tggtatcttt tagaagcttt 180
 attg 184

<210> 29
 <211> 217
 <212> DNA
 <213> Homo sapiens

<220>

<221> unsure

<222> (97)..(161)

<223> a, c, g or t

<400> 29

```
ctcaattatt ctaggaatct atgctgaata tgcctctaac aatacaaatt atgtattact 60
taatgttatt aattatagta ttatttaatt tgcaannnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ntagccatat aatggagtag 180
catgcagata aatcagaaac tagagattgg ttacctg 217
```

<210> 30

<211> 543

<212> DNA

<213> Homo sapiens

<400> 30

```
tgaggaagcc tgaatgggaa tgaaaaacaa ataagaatca aaagcagagg gctgtgtctt 60
ttatttttgt attcttacac cgtatgaact ttattaagaa ctaaaatcat gtgatggtaa 120
cccatgggca cacgctgagt acaaagttgg aaaattgtac cagcatcatt aactgggggt 180
gctttgtgtt aacatttgtt atcattcaca gatgtcaaca ataagagaac acatctctct 240
atatataatt gttacaaaca ttttaaatta taaggaaaag aaaaaaaaag atgcaaaagt 300
tcaaagacta aactcacaac atcctaccga cagagaatac ttaggatagc taagatctca 360
gtgttcattc aaacttctaa actcaaagac tcggatttat gcaggaagtt gaacatgtct 420
tgtgtcacca gatctgtcag tgaagctgat tatagtcttg ggataaattt gagagtaatg 480
tgacagtggg ctgggaactc tgactgtggg ctctgccctc tggatgcaga gactccaagg 540
cac 543
```

<210> 31

<211> 283

<212> DNA

<213> Homo sapiens

<400> 31

```
gcttcaagct tcctgctctc ctcttttgcc atattattga gcctggaatc tgagtgggag 60
aggacgacag aggggtctggg cacaaggaag ccattgattg aggccattac tgcaatcaac 120
ccaccaccaa taaaagcac tggaggagag ggcttgacat agacacaaaa cataaaggaa 180
gggggtgaaa ggaaggaaa agattgagga aaaaaataa aaataaaaaga tggctgggta 240
agggagaag agatagggaa gagagacaga aaaggtagaa tgc 283
```

<210> 32

<211> 418

<212> DNA

<213> Homo sapiens

<400> 32

```
aaaaaatcct tcatgtgtct tgtatacatc tgcagaagac cagtagtgta cattttcttg 60
gctgtagcaa ggggtccaaga aaggaagtag taagcagttt ttcaagtctc tctctctctt 120
tttttatttt gttggcttca atgcttcctg ctctctctct ttgccatatt attgagcctg 180
gaatctgagt gggagaggac gacagagggg ctgggcacaa ggaagccatt gattgaggcc 240
attactgcaa tcaacccacc accaataaaa agcactggag gagagggctt gacatagaca 300
caaacataa aggaaggggg tgaaaggaag gaaagagatt gaggaaaaaa aataaaaaata 360
aaagatggct gggtaaggga agaagagata gggaagagag acagaaaagg tagaatgc 418
```

<210> 33

<211> 172

<212> DNA

<213> Homo sapiens

<400> 33

```
cagactggga ctctggaaaa tcctaaagca ttatagaact tggggcttgt cctttgactt 60
catggttttc aaaccagca tggtagacca gtagtgggt gtccaatcaa ctgagctctt 120
gaaattggaa tagaataaaa tagaaatatg agcatattcc catctataga aa 172
```

<210> 34

<211> 128

<212> DNA

<213> Homo sapiens

<400> 34

```
ggcctccgat tgtccacag ttagttgttc ctggaggca cccctcctgc tgctccttgg 60
atactccagg gccgaggag ccgagactca ctggagtgtg ggcattggcca tccagagagc 120
tctgatca 128
```

<210> 35

<211> 619

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (128) .. (416)

<223> a, c, g or t

<400> 35

```
ggcctccgat tgtccacag ttagttgttc ctggaggca cccctcctgc tgctccttgg 60
atactccagg gccgaggag ccgagactca tggagtgtgg gcatggccat ccagagagct 120
ctgatcannn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
```

```

nnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 300
nnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 360
nnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnngctt 420
tgggtcttttg ggggttgctga aaaagcaaaa ccagggtctgt ggggtagaag gcgccctggc 480
cacacacagg cattgccgcc tctgggggtcc gcagagtctg tgtgacaacc tggtcactcc 540
gatctagcag cgtattttgaa tgaatgagtg acagcttaat gaagtagcca agtaccttga 600
tttgaacgta ggagccggg 619

```

```

<210> 36
<211> 356
<212> DNA
<213> Homo sapiens

```

```

<400> 36
cgacagataa gtcagatata gaatatagac attaaaagat ctggggcact aggctgtacc 60
ctgttattgt cagtggctct ttagtcctta aacaagggtc ttgcctccta cttttttttt 120
gttatggtag aaataaatgc ccaccgagt tttcatcact cactattatt ctatcttttg 180
tgtgcctgta ccatgttccc ttaacaatcc tcaattatga aacatttagg cagtttataa 240
acaatactgc aatgaacaac ctagtgcata cttttttttg gtgttcttct tttattattt 300
cctagaagtg agccctagaa atggagttcc tgagtcaaaa tgacacattt tatagc 356

```

```

<210> 37
<211> 158
<212> DNA
<213> Homo sapiens

```

```

<400> 37
aaggaattag attccacatc tcaatctaag gagcagcaca aatatgcaga gaggaaagga 60
attgattgtg gccctctttg aaaactatct caggccatcc ttgggccact tcaattcata 120
gctcttcctt atgcaaaaata cactcacctc ttgcattt 158

```

```

<210> 38
<211> 585
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (159)..(279)
<223> a, c, g or t

```

```

<400> 38
aaggaattag attccacatc tcaatctaag gagcagcaca aatatgcaga gaggaaagga 60
attgattgtg gccctctttg aaaactatct caggccatcc ttgggccact tcaattcata 120
gctcttcctt atgcaaaaata cactcacctc ttgcatttnn nnnnnnnnnn nnnnnnnnnn 180

```



```

nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 240
nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnt ctcattgtgac tgcagtcagg 300
gtgtcagatg agctatatct tcatctggag gcttgacagg ggaagagcct acttccaagt 360
tcattagggtt ggtggttagaa ttcactccat tgtggatgta tgactgagga ccctggcttt 420
ttgctagcca tcagaagagg ccagtcttgg gtccatagaga ccacctgtgg ctcccttaca 480
atgtgggctt tctcaacatg gctacttact gcatgaagcc agcaaaaaga atctcccagt 540
ccagtatgct aagacagagc cttgtttataa cataagtcca ccctc 585

```

```

<210> 39
<211> 295
<212> DNA
<213> Homo sapiens

```

```

<400> 39
gggggggggca gtagtttctg aagagagagc taaactgcat gagcagatgc ttagccaatt 60
tctaaaaatg gaatgggagg tagaaatttc acagggtggtt gctgggttgc agcatttcca 120
catactagga tacatcatca caagatgttg tctgccagct ggtgctataa ctgctagtaa 180
agccacttgc ttctgaatgc atggtgatag tagtgaatcc ctaatgtcag tgcaatgctt 240
tacttatttg ctataaaatc ctttcatagt cagaagcact gttgtgttcc tggca 295

```

```

<210> 40
<211> 302
<212> DNA
<213> Homo sapiens

```

```

<400> 40
gcggggggggg gggcagtagt ttctgaagag agagctaaac tgcattgagca gatgcttagc 60
caatttctaa aaatggaatg ggaggtagaa atttcacagg tggttgctgg tttgcagcat 120
ttccacatac taggatacat catcacaaga tgttgtctgc cagctgggtgc tataactgct 180
agtaaagcca cttgcttctg aatgcatggt gatagtagtg aatcccttaa tgtcagtgc 240
atgctttact tatttgctat aaaatctctt tcatagtcag aagcactgtt gtgttcctgg 300
ca 302

```

```

<210> 41
<211> 346
<212> DNA
<213> Homo sapiens

```

```

<400> 41
aagtaattaa cttgatcaaa ctcatcttac agatgaggaa actgattcca ccctccatgc 60
tcttcacctg cattctaaac tcttccaggg ccctccttac caggcagagg caaattgagg 120
aagtggacac agcatttcct ttccttggtt ttgacatgc aaagcacttt agactatatt 180
tagtacctaa ttgatgtggc agcagggggc gcctgggatg ttgtggcatc atttttgctc 240
tcaatgagac acgatagggg tggtttggtg gtggtttcaa aactaaagac cctccagcag 300
agcctgtcaa gtaaaacaag ggtgactgct tggttgcat accagg 346

```

<210> 42
 <211> 468
 <212> DNA
 <213> Homo sapiens

<400> 42
 aagtaattaa cttgatcaaa ctcatttttac agatgaggaa actgattcca ccctccatgc 60
 tcttcacctg cattctaaac tcttccaggg ccctccttac caggcagagg caaattgagg 120
 aagtggacac agcatttcct ttccttggtg tttgacatgc aaagcacttt agactatatt 180
 tagtacctaa ttgatgtggc agcagggggc gcctgggatg ttgtggcatc atttttgctc 240
 tcaatgagac acgataggga tggtttggtg gtggtttcaa aactaaagac cctccagcag 300
 agcctgtcaa gtaaaacaag gttgactgct tggttgccat accaggcaca ggtagcatg 360
 aaacaaagtg tagtgtccaa ggagaggag cagggtgtct cctttgggtg agctttgcaa 420
 ggggacttgg gacttggctg gaaaagggtg tttttttagt tgtatggt 468

<210> 43
 <211> 107
 <212> DNA
 <213> Homo sapiens

<400> 43
 ttcaccgtgc tgtgtgaatt gtggctttaa atgtattcct gtcaattcca tatattttta 60
 aaatgttgct tttagagtat gtgcaagttt ggggcatttt tgagggc 107

<210> 44
 <211> 352
 <212> DNA
 <213> Homo sapiens

<400> 44
 gaacatgatt gagttagaaa ccagtgtggc ctgggactgg gaagctcatt aaaggaattg 60
 ggacttaaac tgggaagggc aagttggctc tagatccata gaaactgaag acaggggaag 120
 agagagatgg tattatagat ggaagaaggg gcagtgggtc atggaataaa tattggtgag 180
 caggggagca aaccaaaggg gtaattggga gattctgagt tttcaaggct attaaaatgc 240
 agttccaggc cctagggagg agagttccag actgttttct ctacactgct ataattcctt 300
 aactgctgg gagcagtttc tttgacatac tttgcaactg cagagggcct tt 352

<210> 45
 <211> 356
 <212> DNA
 <213> Homo sapiens

<220>

<221> unsure
<222> (98)
<223> a, c, g or t

<400> 45
gaacatgatt gagttagaaa ccagtgtggc ctgggactgg gaagctcatt aaaggaattg 60
ggacttaaaa ctgggaaggg caagttggct cctagatncc catagaaact gaagacaggg 120
gaagagagag atggtattat agatggaaga aggggcagtg ggatcatggaa taaatattgg 180
tgagcagggg agcaaaccac aggggtaatt gggagattct gagttttcaa ggctattaaa 240
atgcagttcc aggccttagg gaggagagtt ccagactggt ttctctacac tgctataatt 300
ccttacactg ctgggagcag tttctttgac atactttgca actgcagagg gctttt 356

<210> 46
<211> 482
<212> DNA
<213> Homo sapiens

<400> 46
ttgttgaaat tttgtttgac tgcttttagta caggagtata ttccccaaga caagagacct 60
gagagctttt ccctgggttaa gataccaagg atgatttcca aatttttagac atccttcccc 120
ttgttccacc aatttttttt ttcttctggg aaaatagcca ggatgattgc aaaacataag 180
cttgtaaaaa ggcaaaactc catggatgta agaaagtaaa tttcttgagg gccacaccca 240
tgataacgct ggaattttca ttttaattcct aactcatttt ttgtttgttt tgttttttta 300
aactcaaattg tgtctcttta attgaggtca cttacttggg tgggagatta atattctggg 360
ggggaaaactt tcttttttaga gtttatattg ttttattcct tcagtcactc agtattacta 420
atggggtagc ttttggaatt ttccatcccc ccactttca gattactttt ggtctttttt 480
tt 482

<210> 47
<211> 462
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (380)
<223> a, c, g or t

<220>
<221> unsure
<222> (423)
<223> a, c, g or t

<220>
<221> unsure
<222> (451)

<223> a, c, g or t

<400> 47

```
gggagggcct gcttcctgcg agctgtcccg gcaggacaga gactcttccc gccgcggccc 60
tgccattcca ggctgaggct gtgagcagca ccatgacaag ctccagccgc agtggctctc 120
aacagtgtgg gtctctgacc acccgacgag ctggaagtgc agaccgctga cctcccttga 180
gaacctactg ggttcttgca gtaggctcct cagcgggtgc taaacacgcc actcagatga 240
ttctatgcac catcacattg gaaacttttt tcattgactg ttacttaatg agaagacttc 300
cctccgggat ggttctgaag ctcccttcat aggagcaagc ctttggcggg agagcactga 360
gcagacgtgc agcatctttn ctggcttcta ccgaaacacc atggatccag acgtgggttt 420
gtngtctgca cgtggaagcc agccctgcgt ngggtgagcc tg 462
```

<210> 48

<211> 1609

<212> DNA

<213> Homo sapiens

<400> 48

```
atgaggctgc ggtcatcagg gctggaggag ttagaggagg gcaggaagga ccttgccatt 60
ctcttatcaa ggaactgcca ggacctctgt gaagctgagg ccttcagcga gctcctccca 120
ggaccgtcgg agagtccag gaatctggct gtgctgattg gtacagtctt cttcagattt 180
attctatata aagtaagcat attgtcaacc ttctcgtct ctttcaagca cctgagtcct 240
ggcatcacia acacggagga tgacgacacc ctacgtacca gcagcgcgga ggtgaaggag 300
aaccgcaacg tgggcaacct ggccgcgcgg ccaccgccct ccggggaccg ggcccggggc 360
ggcgcgcccc gcgcgaagag gaagcggccg ctggaggagg ggaatggggg ccacttgtgc 420
aaactgcagc tggctctgga gaagctgtcg tggctcgttg cgccaagaa cgcgttggtg 480
cagctgcacg agctgaggcc gggcctgcag taccggacag tgtcgcagac gggcccgggtg 540
catgccccgg tcttcgcggt agcgggtggag gtgaacgggc tcacgttcga gggcacaggc 600
cccaccaaga agaaggccaa gatgcgcgcg gcggagctgg cactcaggtc cttcgtgcag 660
ttccccaacg cctgccaggc gcacctggcc atgggcgggg gcccgggccc cggcacggac 720
ttcacctccg accaggccga tttccccgac acgctcttcc aggagtctga gccccggcg 780
ccgcgccccg gactcgcggg aggccgcccc ggggacgccg cgcttctgtc cgcggcctac 840
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gcggcccccg gcgagcgcaa ccccggtgtg ctgctgaacc gcctgcgcgc cgggctgcgc 960
tacgtgtgtc tggcagaacc ggccgagcgg cgcgcgcgga gcttcgtgat ggccgtgagc 1020
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gcgcaggccg cactgcagga gctgttcgac atccagatgc ccggccacgc gcccggcagg 1140
gccaggagga cgccaatgcc gcagggctgg cttccacgtg caggaccaca aaaccacgtc 1200
tggatccatg gtgtttcggt agaagccagc aaagatgtg cacgtctgct cagtgtcttc 1260
ccgcaaaagg cttgtctcta tgaaggaagc ttcagaacca tcccggaggg aagtcttctc 1320
attaagtaac agtcaatgaa aaaagtttcc aatgtgatgg tgcatagaat catctgagtg 1380
gcgtgtttag acaccgctga ggagcctact gcaagaaccc agtaggttct caaggagggt 1440
cagcggctct cacttccagc tcgtcgggtg gtcagagacc cacactgttg agagccactg 1500
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<210> 49
<211> 272
<212> DNA
<213> Homo sapiens

<400> 49
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gcctcacccc ctaccccctg cacaccccag aattcatact ttcaggcagc cctctggaaa 180
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<210> 50
<211> 405
<212> DNA
<213> Homo sapiens

<400> 50
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agtactgcac agcacctgga acgagcttcc aaatccactt cttccctcca ccatttcata 180
ttaattaatc ctgccagaga gggctgcaca ggccgaactg cctgagaata gcaaagaggt 240
tgtttcaggc ttgggaacta cagagacacc tgtaatgggg aagggatgct cttgccaaagt 300
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cagaagcagg agttggcaag ggccaggcct gcaggggccc agggga 405

<210> 51
<211> 294
<212> DNA
<213> Homo sapiens

<400> 51
gggatgcata gtgagtccaa aatcacctcc ttctcatgaa tccgggagtc cctggagctc 60
acggaggggt tcttgggtgc ttgaaggggt ggaatccagt ctggggcgcc ccattctcct 120
gccgcctgcg gttgctgcag ctttctgtct tcaactgtgaa ccctgggata ctgcggcggt 180
gctggctgga aggtctggctt cccagagcag tgaccgcgtg tggcctgctt cctgagagct 240
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<210> 52
<211> 3381
<212> DNA
<213> Homo sapiens

<400> 52
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cacttctgga	acaagaaggt	cacggccgcg	gtggccgaga	ccttcttcct	gggctggatc	240
gacgagcagg	tcctgctgat	ccagggcaag	gaggaacatc	tggaggcgct	gcgcgaaggc	300
tggacgcgcc	gggccctgcg	gccgccctcg	ggcttcacac	tccgctgcct	gggtgatgta	360
tcacccatca	gtatgtctcc	catcagtcag	tctcagttta	ttccactcgg	ggagatcctc	420
tgcttgGCCA	tctcagcaat	gaactcggca	agaaagcctg	tcacccaaga	agcactgatg	480
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catgcagagc agtactgtag ttacaaggtc aaaaggaaac caccaaaca gtttaattctt 3000
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cctgacacag cgctggcaga ggctgagaca gaaggaaatg ctgtcacacg cagagctctc 3120
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3381

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```

<210> 53
<211> 245
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (199)
<223> a, c, g or t

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<400> 53
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tagagcaaca tagaagagtg ccctgcagtg ggtgctgtaa tggagatgtg taccaggtag 180
aacaggaacc taagggggna aaggaacccc tgagtttata ggggggcacc agggaagggt 240
tcaca
245

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<210> 54
<211> 388
<212> DNA
<213> Homo sapiens

```

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<220>
<221> unsure
<222> (282)
<223> a, c, g or t

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<400> 54
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gagccatcat gcctgggtat tttgaaaacc ttaagataca cagggtataag atgttattat 120
ttactcatcc attctgcaaa tatatacccc tattacctag actctgttga ggatagaggc 180
cgtgcttttt ccacgtgtg gagtagagca acatagaaga gtgccctgca gtgggtgctg 240
taatggagat gtgtaccagg tacaacagga acctaagggg gnaaaggaac ccctgagttt 300
atcggggggc accaggaag gcttcacaga ggacatgatg tgagttgcca tttgaagaat 360
gagaaattgt tcttctgatg aactaaac
388

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<210> 55
 <211> 360
 <212> DNA
 <213> Homo sapiens

<400> 55
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 acaaatttcc tttttacaga tgatatgcat tatagtgcaca ttaacaatca atcttagaca 120
 caagtgattg tttttataaa taggatctcc tcaatattag tgatcctata ttaagaaaga 180
 tagtacatgt gaaccaatgg taacccaaaa gaatttgaaa agcaataatt tagtgggagc 240
 tcaattggaa tataactcta tgtcatcatg tatttattta agtcatattc tatgaaatat 300
 cctatttgaa agcaaggaca ccctttgggt gcaaccccaa gttacttatg cagtattcgt 360

<210> 56
 <211> 1203
 <212> DNA
 <213> Homo sapiens

<400> 56
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 tctgatctca aactcctgat ctcaagtgat ctgcctgcct tggcctccca aagtgttggg 120
 attacaggcg ccacgccagc caacacctct tttttacgaa gtactgcatg agtaacttgg 180
 ggttgcaacc aaaggggtgtc cttgctttca aataggatat ttcatagaat atgacttaaa 240
 taaatacatg atgacataga gttatattcc aagtgcgtc ccactaaatt attgctttttc 300
 aaattctttt tggttaccat tggttcacat gtactatctt tcttaataata ggatcactaa 360
 tattgaggag atcctattta taaaaacaat cacttggtgc taagattgat tgttaatggt 420
 aatataatgc atatcatctg taaaaaggaa atttgtaaga aggaaatatt aaaaaatacc 480
 tgccagaaca acaggattct gaaagattct gtttggaata aacaaacaaa cgaacaaaaa 540
 aacgttttat ggggctagggt tttataacct tttccagtt attttctttt gctttcttca 600
 ccacgttgtg gcaggccagg tttcactaac tcaggcttcc ataacaacgg tttcagcact 660
 gaccgagtgg tcccatcaaa tattaacagc tgagagagtc agtgcccttc tgcaaaggct 720
 ggaatgtcac aaaagcccat caagagcttt gcctcggcct ttcctgggct ttaaatacatg 780
 acaggataat gaaggaattc ttaacgggac ccgttttagga gtaaataagt tttattgggg 840
 ggtccaaaga aactccccag gcctccacaa acaagcctta ttgggtacta aagaaactcc 900
 ccaaacctcc atgatttagc aggagacaag acaaaggat tgaccccgag acctggacct 960
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 taa 1203

<210> 57
 <211> 780
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (192)..(219)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (442)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (452)
 <223> a, c, g or t

<400> 57
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 ggtagtaaat aaaatagaat attcctgtcc tactatggag ggggaatgga gagggagtgg 180
 aggaatagat gnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnng ttcattgtac ataaagaagt 240
 tattttttttc tgacagtaac taacaaagggt ctgggcaaga atcagaggggt gaccattttta 300
 agaggtggtg tttctgttga gactcaaagt ataagaagga tccagtgatg cagaaatcca 360
 gggcaaggaa taggatgttt gaagcctcca tagaagaaaa gcattttata gtagatcaga 420
 aagcaataac aaaaaagaaa anagaaaaaaa anccatttgg caatgtctag gaacaaaaag 480
 gacattaacg tgggtagaat gctgtgagct aaaaagagag tagattgaaa tgaagttaaa 540
 gagaaatgga gagacagacc tcatagaatt ttgccctaaa tgaaatggga agccaggga 600
 gtatgacaca gtcccataat aaacctgctt ctggtgcaga atggattgga attatcaagg 660
 cagttagtga ggaatccagt tagaagggtga atacagtgggt tcagtgggtcc aggatggaaa 720
 tcacagtgcac ctcaactaag aaggcagcag tagaggtaga gagaagttga tagatttgtc 780

<210> 58
 <211> 945
 <212> DNA
 <213> Homo sapiens

<400> 58
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 aggaatagat gataaacaaa caaacaaaca agcaaactag ttcattgtac ataaagaagt 240
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 agaggtggtg tttctgttga gactcaaagt ataagaagga tccagtgatg cagaaatcca 360
 gggcaaggaa taggatgttt gaagcctcca tagaagaaaa gcattttata gtagatcaga 420
 aagcaataac aaaaaagaaa aaagaaaaaaa aaaacatttg gcaatgtcta ggaacaaaaa 480
 ggacattaac gtgggtagaa tgctgtgagc taaaaagaga gtagattgaa atgaagttaa 540
 agagaaatgg agagacagac ctcatagaat tttgccctaa atgaaatggg aagccaggga 600
 agtatgacac agtcccataa taaacctgct tctggtgcag aatggattgg aattatcaag 660

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gcagttagtg aggaatccag ttagaaggtg aatacagtgg ttcagtgggc caggatggaa 720
atcacagtga cctcaactaa gaaggcagca gtagaggttag agagaagttg atagatttgt 780
cagttaagtc ctgaatcacc ttgattgtta cctactctct ctctttgggtt cttaattttg 840
tcttctgtaa actgggatca attatattaa tgccaagaga tgttcagaac atgatttgag 900
acaagacatg agtacctgac ataaggtagg atgcagtaat ctgag 945
```

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<210> 59
<211> 444
<212> DNA
<213> Homo sapiens
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<400> 59
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catttgtagt gaccaaagga gacctggatt tcaatcttga ctttggacct cactagctct 180
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tagtgtttta acttcacatg gttgagataa taatagtaaa caccttagtc ttgtgtttgc 300
cacagtggta gcacatagat attcaaagtt attattccta caaaaatacg gactgtactc 360
accccataat tgcattttta aagaaagacc agttttgcaa ttttccagga ttatctacat 420
gatagctttt tacacaatca gtat 444
```

```
<210> 60
<211> 240
<212> DNA
<213> Homo sapiens
```

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<400> 60
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aataccggga ggcagggatc attagggact atcttagagt ctatttatag taccctctaa 120
gttgtaatta aatttttttt tgtgatgaga tgtacacaac aatttagtat tttagccgtt 180
tttaagtgtg cgattcaatg acatagtcac aatgttaggc aactatcacc attgttttca 240
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<210> 61
<211> 598
<212> DNA
<213> Homo sapiens
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agcttgctgt tgcggctcag gagctcttgt aagggtgcac ttaggatgtt acccagggtt 180
gaagtctgaa agctgcattg aactgaagga tttgcctccg agctcactta catggttgcc 240
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gactgtacgt cacacactca cttttgtttt attacaggac aagtttacat aggggttgaa 420
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taccgggagg cagggatcat tagggactat cttagagtct atttatagta ccctctaagt 480
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<210> 62
 <211> 1430
 <212> DNA
 <213> Homo sapiens

<400> 62
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 catgaaggag agggagagaa gggagaaaca gagcagctgg acaagaggac aggtataggg 180
 aataagggag aagccagtaa ggcaggaaag accctccgtg acaaaggggc agggaacaga 240
 actcaaacat ttaatggcag gtaaccagg ttagaatggg aaattgaaag gtgaatataa 300
 agggagaatg gtgaaatgaa ttttctgaaa ttaattgctg tgtttatagt ttttagccat 360
 gcatcggaat cacctcagga ctccactccc aatcaattat atatctgggg gaggaccaag 420
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 ataaactttt gttcatggga ggatctttct cccagtggaa aagcaactgg gaaaagcagg 720
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 ccctggggat gatatttattg gtagagtggg aatgtattaa aattctctac ttccttgttt 1380
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<210> 63
 <211> 3120
 <212> DNA
 <213> Homo sapiens

<400> 63
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 catgaaggag agggagagaa gggagaaaca gagcagctgg acaagaggac aggtataggg 180
 aataagggag aagccagtaa ggcaggaaag accctccgtg acaaaggggc agggaacaga 240
 actcaaacat ttaatggcag gtaaccagg ttagaatggg aaattgaaag gtgaatataa 300

agggagaatg	gtgaaatgaa	ttttctgaaa	ttaattgctg	tgtttatagt	ttttagccat	360
gcatcggaat	cacctcagga	ctccactccc	aatcaattat	atatctgggg	gaggaccaag	420
gcgttggtat	ttttcagaag	ctccactggt	gattctgaca	gcacagctag	gattaagaaa	480
ctgatcaatg	ggaacagcat	gcctgttgca	gaggagcttc	cctgggaaat	gtcacacaca	540
gaacatcaat	cttccttccc	cactcctgag	atccctcatt	ctttggcacc	aggaacagtt	600
gcaattagta	aaccctgggt	ccctgctgtc	tcacaaatcg	caagagtcca	acgtgtggat	660
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gaacatggat	gggggagtct	ggagctgctg	aattgtaagg	ctcataaatg	tttaaacttt	840
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 <211> 561
 <212> DNA
 <213> Homo sapiens

<400> 64
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 <213> Homo sapiens

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 <211> 398
 <212> DNA
 <213> Homo sapiens

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<210> 67

<211> 2487

<212> DNA

<213> Homo sapiens

<400> 67

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 <212> DNA
 <213> Homo sapiens

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 <211> 543
 <212> DNA
 <213> Homo sapiens

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gga 543

<210> 70
<211> 560
<212> DNA
<213> Homo sapiens

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<211> 546
<212> DNA
<213> Homo sapiens

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<210> 72
<211> 676
<212> DNA
<213> Homo sapiens

<400> 72
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 <211> 451
 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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<210> 75
 <211> 481
 <212> DNA

<213> Homo sapiens

<400> 75

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<210> 76

<211> 492

<212> DNA

<213> Homo sapiens

<400> 76

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<210> 77

<211> 291

<212> DNA

<213> Homo sapiens

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<221> unsure

<222> (266)

<223> a, c, g or t

<220>

<221> unsure

<222> (268) .. (269)

<223> a, c, g or t

<220>

<221> unsure

<222> (273)..(275)

<223> a, c, g or t

<220>

<221> unsure

<222> (286)..(287)

<223> a, c, g or t

<400> 77

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<210> 78

<211> 870

<212> DNA

<213> Homo sapiens

<400> 78

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ttaaactttt gaaatcaagg cttatttaaatt ttgattccta gaaacttaac gctagacccat 300
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gacaaaaaca ggccttaagt tccaaggaag cccagtcttc agaaacccca tttcataatc 420
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ccactcagag ccatgactca ggaacatggc ttgggggtcaa cactgaaaag cagaaatcac 720
agtactgata atgggaattt tgtaggagga aacaggcttt tggaacttaa tgcctttgtt 780
aggtttctgg atttgcagat ctcatgtgt gggcctgctt taggaggaaa agctgggatt 840
cataacaatc taataaacct gacccaaacc 870
```

<210> 79

<211> 576

<212> DNA

<213> Homo sapiens

<400> 79

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gttctcagca tgaaaggtag agagaagatt acttgatcat tatgtgctta tttgaaagtc 180
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actttcctcc catgcctcaa catctcactt tttagaatgc acactgaatg cctggaatct 240
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 tcagtgtcga acggttactc tataaagaga tttaaaaaga aagtcaaggg aagataagga 360
 aggtagcatg gctaacaacc tcgtgggttc tactagcatt atttcatgca aaatgtcatt 420
 aacctttata taggagagaa taagtctggg aatcaactgg catctaaact ccatttcttg 480
 ttttgtcact gcttccttg ttgactatgg aaaagacatt tggctctttg aaaccttgcc 540
 cccaacaact ataacatgac ttaaattcat ttatgc 576

<210> 80

<211> 905

<212> DNA

<213> Homo sapiens

<400> 80

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 tatatcctaa cattactagt tcttcactct tactaaagtg catgttagat ttcttcaatg 180
 atttttttta attggcatgg ttgatacaaa gcctccttct atccaaatac tgtgctcagt 240
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 taaaaaata atatttctgg ggaaaagggt cagtgtctca cggttactct ataaagagat 660
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 atcaactggc atctaaactc catttcttgt tttgtcactg cttccctggg tgactatgga 840
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 tatgc 905

<210> 81

<211> 622

<212> DNA

<213> Homo sapiens

<400> 81

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 ttaacacaat atagtaaaca gaatgaatca taactatgaa cgttttccag aagcatttct 180
 tagataaatt attttataaa aagaaaaaca acacaacatc taagatttag agtggaagaa 240
 tatacttgta gtttaacttc ttgttgattt aaaaaatata tttggattta ttttggcagg 300
 gtgggggaat catctaataa aaaatttaaa gcaaaactca ttttttctaa ccagagttaa 360
 gagacaggga gagaatcaaa tatgtgtgag ctccctctgt tgctctgtaa cagcatttta 420
 ttcattgatt gtgatgtgat aaggaaaattt ttgctaattg gtcaaaaaca attcaatttt 480
 cctttaaggc aattttataac tttattttaa tggaatataa aggaagaacc ccctatatgt 540

aaaattctga ccttcaaatt tatgttaata tttttaaatt attaaaacat taaaaatgca 600
tctattttctc accactaaga gg 622

<210> 82
<211> 1079
<212> DNA
<213> Homo sapiens

<400> 82
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tcagattaac ctttagacac attcacaggg ttactctctt ggaagatctc tagggatcct 180
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tcatatcaaa tgatagaaaa tgaaagccat ctccctagtt ctattcccca gaagagacca 360
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tttgcacata tatggcataa ttaatatatt gttctaaaaat ttacattttc atctatctag 480
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cagaggagaa agagctactg tccccaaaga ttggagcaaa tagccctgag ggaagtggaa 720
aatgtctttg gagtgttatt tcttttatct taaaatttag tgcagatctt gcattcaaa 780
acatcatggt atatctgtgt ttgtttcctt tgtttttaca aggagtctt cccaaaaaac 840
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accttcagt tattgccaag tactgctcat gtacactcca gctgagaaat acagtgttag 960
gtttccaaca aaagtaccta aggatttccc acagttcact taagaaggat gcaaaagatg 1020
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<210> 83
<211> 331
<212> DNA
<213> Homo sapiens

<400> 83
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aaagaatgct ttggtcactt tacatcagtt ttaaagtagt ggcaaataag agaatgccta 180
ttcaggggcat ttattggcac ttccatgggg ggtaggtcct gaagtttcct gtggcagggtg 240
agtgaaaggc ctgggaagaa ggccaaggat gaaattgatg tggagaagag gatctggctg 300
acttttcctt gagaattcta agggatattt c 331

<210> 84
<211> 437
<212> DNA
<213> Homo sapiens

<220>
 <221> unsure
 <222> (362)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (399)
 <223> a, c, g or t

<400> 84
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 ataaaatgtc tagccttgta aagagttaag tttacttaca agacagacat catctaattt 180
 gcaacaagga ttaaagcccc actctgaatt aaaattttctg ctggaaagat ttgaggcact 240
 ggcaaactgt caaaggtagt attgtgcgag agtaaccagc ttttgcaaga cctgtgaaag 300
 taaatctctt cggccagagt ttcttaggtg tgtgaactta tgatgatcag gaatacattg 360
 gnggattccc actagagaaa cgcaccatta atagttaang ctttcacttt ctggtttcac 420
 ttgttgccct cataaat 437

<210> 85
 <211> 526
 <212> DNA
 <213> Homo sapiens

<400> 85
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 gggaggaggg gattgaggga tttttactaa ggcagaggca ggtgatagat ttgagatttg 120
 caaagtcaga acttgaggcc cagttgagga atagcattac aatgttagca gcgttggttag 180
 gcgagcaca gacttcacag gtgatgctag ttcacaaaa tgtgaacca cattaactgg 240
 ttttcctttt gaatgtgatg gttccaagag gtttgcagtc agtggagatg tgtgaaaggg 300
 cttggagggtg gaaatctggg taagaatgcc aagggcattc ctggtagatt aaaatggtaa 360
 agcaagcaac agatctggaa aagaactagg agaaactggt agtattttct ggggtgtcaac 420
 gtagggaaag gcgttctaag cgttttcctt ataaataatg aaaaaatggt aaaaagccaa 480
 aaaaaaagtg ggggggagact gaaaattgag attatataga aaattg 526

<210> 86
 <211> 440
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (144)..(169)
 <223> a, c, g or t

<220>
<221> unsure
<222> (178)..(179)
<223> a, c, g or t

<220>
<221> unsure
<222> (181)
<223> a, c, g or t

<220>
<221> unsure
<222> (218)
<223> a, c, g or t

<220>
<221> unsure
<222> (403)
<223> a, c, g or t

<400> 86
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tttggcaaaag atattttctca tacaatgaga aatatctttg tccaattagt ttaaaatctg 120
atgtagagaa actgtatata tatnnnnnnnn nnnnnnnnnn nnnnnnnnnng atacttanna 180
nactacttta gtttttagag tagtttttagt ttccggcnaa aatgagcagg tacagagAAC 240
atttttgttt acaatctaga caaatgtatc cattgtgtac aaattcattg aaaataatgt 300
tatattatgt tatatgtgta ctcaaatact ctgggttgta attcagcaaa acactggttt 360
ttaacaagta gtttcatctt catttttggtt attttcaata aanacaaatt cttgtcatta 420
tgcaacaagg ttataataaa 440

<210> 87
<211> 95
<212> DNA
<213> Homo sapiens

<400> 87
acaggcgtga gtgccactgt gcctgtctca ttccctcttc attattagct ggaatacttc 60
cagaaagaga catttccctt actgactgaa acaat 95

<210> 88
<211> 416
<212> DNA
<213> Homo sapiens

<400> 88

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 ggctggagtg tgatggcacg atctaggctc actgcacct ccacttccgg gttcaagcga 180
 ctctcgtgcc tcagcctctc aaagtgctag gattacaggc gtgagtgcc ctgtgcctgt 240
 ctcattccct cttcattatt agctggaata cttccagaaa gagacatttc ccttactgac 300
 tgaaacaatt ttttgaattt tatttattta tatatgagag ggagttttgc tcttggtgct 360
 taggctggag tgcaatggcg tgatctcggt gcactgaagt ctccgcctcc tggatt 416

<210> 89

<211> 270

<212> DNA

<213> Homo sapiens

<400> 89

cttccagaca gctggccagt tatgttactg aaacagatat gtttctgaaa catacctatg 60
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 ttatttgtaa tttgtcagaa tttcagtatc tgagagtata cattctgaat tttatagttt 180
 tagatcatgc aattacactt attttccctt gcttttgaaa aagtaaagt gcttccctatt 240
 ttcttaatga tcagttatct tttttgttg 270

<210> 90

<211> 148

<212> DNA

<213> Homo sapiens

<400> 90

gatggatggt gttacttagc ttgaagaagt acattaaact gcactgggtct ttggcaacac 60
 gtcccacgtg ccatgctagg catgcaatgg attctgatct tttattgtac aagtgggtgta 120
 aattctgatt catgacgata tgttggtg 148

<210> 91

<211> 853

<212> DNA

<213> Homo sapiens

<400> 91

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 gcctattaat ttcaagttac agttattatc aaactgtatg tttcttaagg caggatctga 180
 gttgtgtaat catttatccc catagtagct tgcccttaag aggtacttag tacatatttt 240
 ttgatgaatg atgttgtaaa aataatggtg tcctgtataa taggttatgg tttaaaaata 300
 gaggaagtct ataggactct tagaaagtac ttcagatata tgagaagact aagattgaga 360
 acttcttgga ggtctaattc taaattaaac ttccaagttg ggatgcaaaa ataaggagga 420
 tgtttggaaa catcccatga tttatatatta cataagcttc ataaggagaa tgaatacaga 480
 ctgacctttg cttgagagcc atgtgatggc cagagaaagc ggcatgggtt aacagccaaa 540


```

aggaaatcag cattatacta aagcagtgtt tctcaaagtg tgttccaggg aaggatatac 600
ccaagaaaca atatccatca agagacttct ataaaaagag gagataattt aatacatata 660
gaagcatgac atagtccac ggatccctga acaatacagg ggttgggggc attgaccctt 720
gtgcagacaa aaatctgcat gtaacttttt tttgagacag agtctctctc tgcactccag 780
cccgggcaca gagcaagacc ctgagacctt gtcagaaaga aataaagaga gaaagagaga 840
ggagagggag agg
853

```

```

<210> 92
<211> 801
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (553)..(676)
<223> a, c, g or t

```

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<400> 92
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ggaacatttt ggactttatg atcacaaatg ctttttaatc tgtgtaactt catctacaga 180
aaaccatggt ccattaagac tagagcgatc cctctatctc ttcatgccag gcttctacca 240
gggagataac ctgtacacat tactcacgag catagtgcgt aatccacata gggtaatgtc 300
tgcagatttg agtatgtgtt ccctaattct ttatctagca tgtagagtat aaataacaca 360
atactggatg cttttatgga tgaacaagga ataataccta gcacctttct tctagaagtt 420
tatagtatga agagagaaga taagatgcat ctgagaaact agattaaact tgacattgtt 480
tgatcaagag ccacgtgagc aataccaaca tggttggaga cagaggagaa atccatcgtg 540
gtgaatctag agnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 600
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660
nnnnnnnnnn nnnnnnccac ctctgcccc ggtacacacg gttggtataa ccaaaagtat 720
ctccaggtgt tgccaaatct gatctagagc aagaaaaaac atggaacatg aaaacagtgt 780
gtttaaaata aagccagaga g
801

```

```

<210> 93
<211> 280
<212> DNA
<213> Homo sapiens

```

```

<400> 93
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gtgggagagg ctgggcagca gggattggct gaaatcatat gcagagccca agaggcaggg 120
gaaaggcggc aatttcaggg tccctttgtt cgccaggtag ctggggccca gcccgggcgg 180
caggagggac tcagccctc gccaggcag gaagggtccc aagcagagga ccctccctca 240
ggcactcccc agccacacc tgcagcactg ggccaagact
280

```

<210> 94
 <211> 829
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (784)
 <223> a, c, g or t

<400> 94
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 aaggcggcaa ttccagggtc cctttgttcg ccaggtaact ggggcccagc ccgggcggca 180
 ggagggaact agccccctgc ccaggcagga aggggtccaa gcagaggccc ctccctcagg 240
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 aagacagctt tatcttggtg atcggaagtc tgccagccca atttatgatg gaacataaga 360
 tctctaaatc tgaatttaca ctctgtagcg taacgagagg tcaataagat taaacggggg 420
 ctccaggagag gaccagcgtc aggctcactg cgagggtgctg cacagaaaac ccacagccag 480
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 ctgaggacag tgggaatctt ccctgaggca ggttcaagga cagagctctg accctgtgcc 780
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<210> 95
 <211> 170
 <212> DNA
 <213> Homo sapiens

<400> 95
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 gcagccggggc ttacttaagg gagagcacag acattccctg ctcaaaaaca aaactgctaa 120
 acgtgactcc ggtagcctcc atgctctctg caagaataaa atccttgaag 170

<210> 96
 <211> 259
 <212> DNA
 <213> Homo sapiens

<400> 96
 caaatttgaa atcttaaaat ttaagaaact agtggaggaa ttggatagta catgatttca 60
 aaaacatgaa aactgaggac attaaatgtg caagggttag aagtttgtcg catgcaaagg 120
 ggaaagtgaa gatagcattt ttccacatag ttccagaagt ccagttgctg aggttaatca 180
 atgaaagttg tagcatcaaa ggtttaacat aaaacaactt cctaaaatca gccagggtgca 240

<210> 97

<211> 392

<212> DNA

<213> Homo sapiens

<400> 97

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atggggtttgg tcattcaact ttaagtttat gagatatatc catggtgaat tttgtagctg 60
tggtttgatg atttttacat tatatagtat tacattccat ggatagttct cagtagataa 120
tcctcctatt gtttaacatt tgcgttgctt ctcattttga cctattttta acaggcctct 180
ttaaatatac acttctctgt agtgtatgct agaaatggag tggctggaat aaaagtggct 240
gaatcatctt caactctagt aagatgtcaa actgttttct aaaagtgttt tatttttaact 300
attatatgtc aattttgaac agctctttca cttactagca atttattatc agcaaacactt 360
gttattgtca gacttttaag ttttcattca ct 392

```

<210> 98

<211> 863

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (395) .. (627)

<223> a, c, g or t

<400> 98

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tggtttgatg atttttacat tatatagtat tacattccat ggatagttct cagtagataa 120
tcctcctatt gtttaacatt tgcgttgctt ctcattttga cctattttta acaggcctct 180
ttaaatatac acttctctgt agtgtatgct agaaatggag tggctggaat aaaagtggct 240
gaatcatctt caactctagt aagatgtcaa actgttttct aaaagtgttt tatttttaact 300
attatatgtc aattttgaac agctctttca cttactagca atttattatc agcaaacactt 360
gttattgtca gacttttaag ttttcattca ctggnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480
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nnnnnnnnnn nnnnnnnnnn nnnnnnnngtg atcatattta tggtttgctc atttaaaaaa 660
acctgggttaa atatttcaca aatcgacatt atgatatatt atcttccaaa attttaataa 720
ttttgtcttt tttcacattt tagtccttag ctcagctgga attcatttct gtgtgtgggtg 780
tgagataagt ctttttcatg tttttcccta tgaaataaat tatttccttc tgtattgcag 840
gtagctgaga ccaatgatag ctg 863

```

<210> 99

<211> 563

<212> DNA
<213> Homo sapiens

<400> 99

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ggtacatctt ggctgtggat ggaaatttga catacttttt attttcttta cctgttacat 60
atcaaactctt aggatgtatt acttccaagg cggttaaact tattcaagat tgactgagtc 120
tcctatttttc cttaaattta ctagaagtga ggctccaaga actacagaaa atagaaggaa 180
agtctccatt gagccatgaa ctgtgagcac ctggcattta agcatgaaga gtagggcttc 240
tatggtaggg actggagtag gcagcattcc aggaaaggat ctcagaggtc agaaacaata 300
gattatcagt taaatacttc tggaccaaaag aagaccttga aatcctggct cggtgatgta 360
tacatattta atacacaatg agaagctcct tgagggtgag tgagagtgat agggctgaag 420
aacaggagac agaagacaat tcaaagtgtc ttacacagaa gactgattat atagataatg 480
gtacattcat ataaacatga tatattttact aattaaaca taccaacaca cacaacacct 540
cgagccgcta gtctcgagtc tag 563
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<210> 100

<211> 667

<212> DNA

<213> Homo sapiens

<400> 100

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gtaccagcac ctctcaccag tggctcacac tattatacaa ctttagaaga actctggaaa 120
agttttgatc tttgtgaaga ctattttaaa cctccatttg gaccatatcc tgaaaagagt 180
gggaaggatt ccttggtttc catgaaatgt tcattgtttc ggttctgtcc gtgggtcaaaa 240
gaattgcctt tccagcctcc ggaggggagc atttcttcac acctaggatc aggagccagt 300
gacagtgaga ccgaagagac ccggaagca ctacctatac aatcattttc acatgaaaaa 360
gagtctcacc aacacagaca aactcgggtc ccagtcatca gtcgcccagg ttccaacgtc 420
aaacccaccc tccctccaat ccctcagggc cgcaggtaga ctagcacttg atgtctgatc 480
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<210> 101

<211> 3734

<212> DNA

<213> Homo sapiens

<400> 101

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 <223> a, c, g or t

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<223> a, c, g or t

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<211> 119

<212> DNA

<213> Homo sapiens

<400> 104

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<211> 290

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (19)

<223> a, c, g or t

<400> 105

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taccagtgtt tgtcacgtgg ttgttgaata aatgaataaa gaatgagaaa accagaagct 180
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<211> 1645

<212> DNA

<213> Homo sapiens

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<221> unsure
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 <223> a, c, g or t

<400> 106

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<210> 107
 <211> 2241
 <212> DNA
 <213> Homo sapiens

<400> 107

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 <212> DNA
 <213> Homo sapiens

<400> 108
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 <212> DNA
 <213> Homo sapiens

<400> 109

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<210> 110
 <211> 448
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (409)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (431)
 <223> a, c, g or t

<400> 110
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 tgaaaagttt acacaatcaa gacttgctat gttgatcctt tactgcggta ttgttttttg 180
 ttttctgacc caaaagtgat gtgcattgct tacctatcat ggccttggtt aagggtgtcag 240
 tcttgccctc aaatttcctc ctaaagcatg gaattggcca taaatttgct tagtgatttt 300
 ctgatttagt atcattagtt tgatgactag ttttattatg tgagtgtgat aaaagggttac 360
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 acaacatagg ngtttaacttt gtctggag 448

<210> 111
 <211> 798
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (770)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (773)
 <223> a, c, g or t

<220>
 <221> unsure

<222> (779)

<223> a, c, g or t

<400> 111

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tgaaaagttt acacaatcaa gacttgctat gttgacctt tactgcggtt ttgttttttg 180
ttttctgacc caaaagtgat gtgcattgct tacctatcat ggccttggtt aagggtgtcag 240
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acaacatagg agttaacttt gtctggaggc tttttcaagc ccaagagggt gtcatttctt 480
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acctcagcca agttgcttgg actgctttgc ttaataatgg gtttgccata tctactttta 600
tgagatgtgt ggcattggtg tggttacaaa agtgatttgt taattattgc ctggtaggaa 660
ggagaacatg ttttttttga acctatgcaa atagccacat gtctgtgaaa agtaaaggga 720
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aaggcaattc gtggtcgt 798
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<210> 112

<211> 683

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (676)

<223> a, c, g or t

<400> 112

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ggctgagcag actagccctg gggaagggtc ctgtgtccta aggcctggggg aaccaaggga 180
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aggcttctga ggagggggaa ctgcccagct aaaactggtg cctttgccag ggtacaatga 300
ggctaattct gggaacatag aaagaagctg acctggaacc agctacagcc accagtgtcc 360
aatacacagt tagcagggtc tcttagagag aaagactcaa aagattgtct gtgaataccc 420
taaatccaat ccagggtatac tggatgcaaa cactaggaga aaaaagaaag cttttatata 480
aggaattaaa ttgccctctg tctgaagaaa gaaacgatta ggaaagatgg aagtgatctg 540
aataaaattt acaaaaggag aatcagacag accaacctgg gtgatgtgtt tcaagctctg 600
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ggttttatgt tggtnctct ctg 683
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<210> 113

<211> 735

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (698)

<223> a, c, g or t

<220>

<221> unsure

<222> (700)

<223> a, c, g or t

<220>

<221> unsure

<222> (704)

<223> a, c, g or t

<220>

<221> unsure

<222> (709)

<223> a, c, g or t

<220>

<221> unsure

<222> (714)

<223> a, c, g or t

<220>

<221> unsure

<222> (730)

<223> a, c, g or t

<400> 113

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ggctgagcag actagccctg ggggaaggct caagtgtccta aggctggggg aaccaaggga 180
agaggttggt gttatctgga tttggaagct ggaagaagg accctacagg gctgagactc 240
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ggctaattct gggaacatag aaagaagctg acctggaacc agctacagcc accagtgtcc 360
aatacacagt tagcagggtca tcttagagag aaagactcaa aagattgtct gtgaataccc 420
taaatccaat ccagggtatac tggatgcaaa cactaggaga aaaaagaaag cttttatata 480
aggaattaaa ttgccctctg tctgaagaaa gaaacgatta ggaaagatgg aagtgatctg 540
aataaaattt acaaaaggag aattcagaca gaccaacctg ggtgatgtgt ttcaagctct 600
gccccaggag cttgaatgtc tggtccttgt ggcaggagca ttcctagaga ctggtgcctc 660
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tggaaactcan attct 735
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<210> 114
 <211> 601
 <212> DNA
 <213> Homo sapiens

<400> 114
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 aaaacccttg tcttgccctc attgtgtaaa tgcaatttgc cttgtcaa at gactaggagg 120
 ccagtatagc aaggtcctt tgggaaactg ggttccggag ggtcagagct gcctctgctt 180
 caggcttctt catgatctgg atcaagcttg tttgacttcc atctacagaa gtcaaccttg 240
 gcttctcaaa gagcaaaata gggctgagca gactagccct ggggaaggct actgtgtcct 300
 aaggctgggg gaaccaaggg aagaggttgg tgttatctgg atttggaggc tggaagaagg 360
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 acctttgccg ggggtgcaatg aggctaattc tgggaatata gaaggaagct gacctggaac 480
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 aaagattgtc tgtgaatacc ctaaatacaa tccaggtata ctggatgcaa acactaggag 600
 t 601

<210> 115
 <211> 334
 <212> DNA
 <213> Homo sapiens

<400> 115
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 cctgatgtta gcaaactctc cacacttta ttcaaccctg caaacacttt ccaagtgcct 120
 tctgtttgtc aggcaatatg ccagtcacta ggaatgaaga ggtagataag gatgggcctt 180
 aaaatcaatc tagtgaggag ggacaacata aacaaatgaa caaacaatta tcagaaatat 240
 tttttatggg gtggcaaac agtgaaatat aggatcta at ttggtttgga aagaaagaga 300
 aaatttaaca gaaaaagtaa tgtttgaagc cagt 334

<210> 116
 <211> 193
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (38)..(90)
 <223> a, c, g or t

<220>
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 <222> (94)
 <223> a, c, g or t

<220>
<221> unsure
<222> (96)..(97)
<223> a, c, g or t

<220>
<221> unsure
<222> (99)
<223> a, c, g or t

<220>
<221> unsure
<222> (156)
<223> a, c, g or t

<220>
<221> unsure
<222> (172)
<223> a, c, g or t

<220>
<221> unsure
<222> (179)
<223> a, c, g or t

<400> 116
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aaaattgtat tatattaggc gttttttgtt aaatangtag atcatagctg cncttgtcnc 180
aaaaaggtaa cta 193

<210> 117
<211> 152
<212> DNA
<213> Homo sapiens

<400> 117
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gtaaaactgg taggctaaac attggggagt tattacattg acaacaacat gaagggggtt 120
atgggacttc tggtaatgtt ttgtttcctg at 152

<210> 118
<211> 498
<212> DNA
<213> Homo sapiens

<400> 118

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aaggatgtta atctcagcag gatttgtaat acacccaaaat tggaaaaaac cctcaaaatg 120
tctatcaatg gtagaatgga atTTTtataca gcaatggaaa tgcattgaact atgactatta 180
gcagcaacat gaatgatttt cataaaaaata gTTTTgagca aagaatccag atataaaaga 240
gggcatgccc tatgattcta cgtatattaa gtccaaacac aagcagtact atctatgata 300
gtaaaatggg aggctaaaca ttggggaggtt attacattga caacaacatg aaggggttta 360
tgggattctg gtaatgtttt gtttcctgat ctgggcactg ggtaccagga tgtattttact 420
ttgtgaacat ttaaccatct acgatttttg gatttttctg ggtatatgtt atactttcaa 480
taaaacattt tcatgaga 498
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<210> 119

<211> 663

<212> DNA

<213> Homo sapiens

<400> 119

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atgtatttga ctatattatt tagttctgaa aggaattttt taatacagtg aaacattagt 60
taaaaaataaa tgtaaactcc aaaaagaata ataaaatcat tatttttttaa tcagaggctg 120
ccagtgtttt tctgcttaat ctatacagca tcttagctgt aaaaatgata gaattcatgt 180
tattttacta tgcattctca gtaacaataa atgtgttgct cacttctaca ttttagatag 240
ctgacataag gcctaacatg gaaagcaaaa agctatccag gaaatatttc cctgctcatg 300
catatttcct ttggcataca aatcattgta aatgatgggtg agttaacttc aaacatttca 360
agctacacaa ctaatgtaat taaaccctaa gtccaattta ctattggccc ttggtacttc 420
tgcaggctga tgtaaagtgt catttttcaa gtctttcatt gcctataaac aagatgggtgg 480
caattttctt tattttctga acacttgcaa tttcctaaaa gtttcatact tcttcatacc 540
ttcaaataatg atttaggctt ttctagtacg taggcttccc ttttctgcct tgcttgacga 600
ccctgttcat gcttgttaga catagcttca acgtgacatc tgggaagctt cccatgacat 660
gga 663
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<210> 120

<211> 904

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (684)

<223> a, c, g or t

<220>

<221> unsure

<222> (888)

<223> a, c, g or t

<220>

<221> unsure
 <222> (893)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (896)
 <223> a, c, g or t

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 gtgggtgatg ggtcctaagg gggcctccag gacccaccag ccctatgagg aaagagttct 180
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 ggtccgggac atggaaattc ggactcaggg aggacccggg ctgggcaatg actgggagac 420
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 ctgggtgaga aaaacaggct gtgatccaga agaagggaag atagagaagg agggaaagga 780
 tgtaggcgaa ggaggtgaga gacaggatag gaggaaggaa gtggaggagg aggtggtagg 840
 aattggaatg aggtagaagc cgtgcagagg aagaggggag aaggacnag gangancgat 900
 gaag 904

<210> 121
 <211> 1309
 <212> DNA
 <213> Homo sapiens

<400> 121
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 gtgggtgatg ggtcctaagg gggcctccag gacccaccag ccctatgagg aaagagttct 180
 tcttgatcct accccttgac ttctttttct ttctcctgca ggtctcagaa cggccccgaa 240
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 caatcccagg gcagaaggac atgagggagc aaagagcttg aggaatgcca tactccggct 360
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 ttgcctgggt tcccaggact tgggggtcct gactcccagc cctcatcctg cagtcccctc 480
 tgttcccagc cccagccttt ctaagccatt gggaatagaa tggccccctt tgttctgggtg 540
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cggggaagag	aatcctggac	agggacagga	tggggagggg	atttataacg	ggcttttttg	1080
tgggagatgg	gtacccagtg	ggggccactg	gagggctctc	gggcacactc	tggcccttcc	1140
cagaaagggg	gtccgtcttc	tcgaatcctt	ccacagttgt	gtattgcaaa	ctacggcgca	1200
ttttactatt	gatcacacgt	cattatcttg	tcattacata	ctatttctat	tcaacctccc	1260
ccaactgaag	tgtggccgcc	acaatcacca	ccaaccccca	cacaaccaa		1309

<210> 122

<211> 295

<212> DNA

<213> Homo sapiens

<400> 122

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tgtccaggca	tgcatacaac	ccagcaattg	catgcctggg	cgcttacctt	acagaaatga	120
acatttataa	ttacattata	atatgtacac	caaattcatc	acagctttat	taatagaagc	180
caaactctct	gtgggcttct	cacagtgtac	ccattgccag	agtaaactgc	agccttgaac	240
cattgctcag	cctccttacc	catgagctat	gaacactgaa	gcaggttgca	cagtg	295

<210> 123

<211> 714

<212> DNA

<213> Homo sapiens

<400> 123

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aaacagcgta	tccggcaaag	aattaatatc	agaatacata	atgaattctc	gaaaactcga	120
agtataacaa	atatcgtaca	ctggaaagtg	ggcaaaacca	ttaataaaca	tttcaccaca	180
taggatatat	agatggccaa	agaagcatat	gaaaaagatg	cgcaacatca	ttagctatta	240
gggaaatgca	aattaaaacc	accattagga	tattagtaca	gaatggttaa	acatcaaaaa	300
taatagtgat	aacaccaa	gccaataagg	aagtggagga	gaaataggat	cattgatata	360
ttgttttttg	gaaggtaaaa	tggtacagcc	ctctagaaa	cagtttggtg	attagaaaaa	420
aacccaaagt	atgcatgcag	ttctgtaaga	taaagtgtct	gtccaggcat	gcatacaacc	480
cagcaattgc	atgcctgggc	gcttacctta	cagaaatgaa	catttataat	tacattataa	540
tatgtacaca	aaattcatca	cagctttatt	aatagaagcc	aaactctctg	tgggcttctc	600
acagtgtacc	cattgccaga	gtaaaactgca	gccttgaacc	attgctcagc	ctccttacct	660
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<210> 124

<211> 924

<212> DNA

<213> Homo sapiens

<400> 124

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ctcttgctgc tgtgggcagg ccgattagct ggaaggaccg ggctctgatg cccagaggct 600
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tcttccacat gccaggccct gcaaagtgtc ggggagatac catgggtttac atggagctgg 840
tatttttggg gtggagggaa cccaccctga ataaataaag taaccaata aataaagaag 900
atgattttga acagcgaaaa aaaa                                     924
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<210> 125

<211> 939

<212> DNA

<213> Homo sapiens

<400> 125

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aggcctggag accagctccg gtgggaagct ggctggccat cagaagaccg tccccacggc 180
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atcaccaccc caagcccccga gtcccaatcg agggcttgct accccaccaa tgaagaccta 300
catcgtgttc tgtggggaaa actggcccca tctgactcgg gtgaccccca tgggtggggg 360
atgccttgcc caggccaggg ccaccctgcc gctctgcaga gggctctgtg cctcagcttc 420
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ctcttgctgc tgtgggcagg ccgattagct ggaagggccg ggctctgatg cccagaggct 600
gcaattccca gggcctggcc ctgcttcccc agctaagcag gagtcttttg tgcttgagcc 660
aaggaaacat cattagatcc gctaaggggc atctgaaaca tccgtcgagt ggcagaggca 720
ggataagtca cctgcacatg aagagactca ttcattcata cagcaaatat tactggtaca 780
tcttccacat gccaggccct gcaaagtgtc ggggagatac catgggtttc ctggagctgg 840
tatttttggg gtggagggaa cccaccctga ataaataaag taaccaata aataaagaag 900
atgattttga acagcgaaaa aaaaattcga gctcgttg 939
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<210> 126

<211> 317

<212> DNA

<213> Homo sapiens

<400> 126
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 aactaaacct gcagtcaatg taagtattca taccctaaga aaaagcacca caaatgatg 120
 tctgtgattg ttaacggttg attggtttcc tgtgtccata gtggacaata ttatgaagca 180
 tagacagaaa aacatgttta ctaagaagct tttttttcct tccaggaaat tctgtaggtg 240
 aaacatgttg aacattgtca gttgacacat attctggtga agtctaacat taaacattaa 300
 actaaaaagc aagtgac 317

<210> 127
 <211> 144
 <212> DNA
 <213> Homo sapiens

<400> 127
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 taattcccca agttttaaat gcctgggctt cgtaaagag tttttacca ttgtctgcta 120
 catgtgtaaa atttcacctc agca 144

<210> 128
 <211> 161
 <212> DNA
 <213> Homo sapiens

<400> 128
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 attccccaag ttttaaatgc ctgggcttcg ttaatgagtt tttaccaatt gtctgtctaca 120
 tgtgtaaaat ttcacctcag cattttgtgg ttttgtttt t 161

<210> 129
 <211> 728
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (239)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (255)
 <223> a, c, g or t

<400> 129
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tgtcagcggt gcacagccac ctttagcagg tatgttcaga acttacattc ccaccctttc 180
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<213> Homo sapiens

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<223> a, c, g or t

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<223> a, c, g or t

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<223> a, c, g or t

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<223> a, c, g or t

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<400> 141
actggcagtg cctgggtcaa gaggtactca aatgtatttt aatcatttaa atgattgact 60
gcaagggttc cagctttgag atgaatagga taatgatgtc atcatgaaca cagaagtaaa 120
tgcgtgtttg gcaataaaaag agatggg 147

```

```

<210> 142
<211> 417
<212> DNA
<213> Homo sapiens

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```

<220>
<221> unsure
<222> (4)
<223> a, c, g or t

```

```

<220>
<221> unsure
<222> (56)
<223> a, c, g or t

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<400> 142
gaantaaat caattagcca gatttgtaac tttaaagcta ccacagtgag attttntctt 60
taaaaacatg catgttttta tattgtatcc tttaatatatt atattgtaca gttacatgtg 120
acacatatta catatgacta atttatatgt agcaacaggg attaaagaag acctctttta 180
attgtaccac ttgttataat gctattattt acccagattc aaatgtaact acttacaatt 240

```


tttaaacatt	tttattttctg	tattcttttaa	aatattaagg	caatgggtttt	tcttgaaatt	300
atatttttggc	ctatgtattc	tattttttatt	cacactggat	ttattatgat	aattatatca	360
aagtgattat	ttttaccctg	actttttaaaa	gtcaactggt	tcagaagtca	agttgat	417

<210> 143
 <211> 834
 <212> DNA
 <213> Homo sapiens

<400> 143						
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caagcccttt	cctgggctca	gctgtgagct	caggacgggt	tagacgcagc	agcaatgatt	480
ttaagagttg	ccgtgttaaa	cggatgatagc	ctgtgacggg	gctgtgtgcg	gaaacatccg	540
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agttgtctgt	gtggaagacg	ggagaggcag	gggcaccacg	ccactgtccc	caagaccggc	660
ccccaggcac	tgcgcggaag	aggccgtggc	ctgtgaggtg	gcccttccct	gccctggaca	720
ggctgtggag	gggctgcagg	cggaggctgg	gcttgggagt	gcttgaagga	tcactgggct	780
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<210> 144
 <211> 982
 <212> DNA
 <213> Homo sapiens

<400> 144						
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caagcccttt	cctgggctca	gctgtgagct	caggacgggt	tagacgcagc	agcaatgatt	480
ttaagagttg	ccgtgttaaa	cggatgatagc	ctgtgacggg	gctgtgtgcg	gaaacatccg	540
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ccccaggcac	tgcgcggaag	aggccgtggc	ctgtgaggtg	gcccttccct	gccctggaca	720
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<210> 145
<211> 601
<212> DNA
<213> Homo sapiens

<400> 145
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tcctgtccct gagctctcct gattttgtta taacagcaga gtccacttag attttaacca 180
tttgatcagc agagccttgt ttttggcctg ttgtgctgca tgatttacag tgtgcatctg 240
gatttgtaat tatgcctcac atagtttata ttttgattca cttcaggcctt ttctgctttc 300
tcctcttttac ctgcctctag ggccatatgg agtggaagtt tgcattgtgt tgtaaaagca 360
ttttgaaatg ttcacagac tttcatgggt tccttacttc ctttttaggt tttgcatttt 420
aaattagggt atagaattgt gaatttacca aactatattg tggattttat tcaaacagtt 480
tctgtgggta tgaaatactg gtcattgtga tgtatcaata ttttatatgg aatcattata 540
tttcttgggg ttaggctgac aaaaaacaat ctgtagctt cattcatgag aggtattcag 600
a 601

<210> 146
<211> 247
<212> DNA
<213> Homo sapiens

<400> 146
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gacctcagtc ctaggttctc tctgccccga cttcttgcca agggggaata gagttagctc 180
aggaaacaaa ggtaaaagcc cttttccac aactaggtaa accaatgtaa gcattaagga 240
tattaaa 247

<210> 147
<211> 424
<212> DNA
<213> Homo sapiens

<400> 147
gggggaattc agctaaaata tttaaagttgc taattctgag tcttggcaga tggctggaag 60
tccaagtcac cttttttctg agactcttgt gcatatggat gggttttggt tgggtctgct 120
atctgaagta tctgacgtgg taggtattat gggcaaatga taatgttcgt atttgaatag 180
ttgatagctt aatgatttca aagaattatt atacattgaa acacaaggct agtcagtggc 240
tggaatgaa tgcacacatt tgaagtgaga ggactgctga gagcttggtg ggtggttggg 300
acctcagtc taggttctct ctgccccgac cttctggcaa ggggaataga gttagctcag 360

gaaacaaagg taaaagccca ttttccacaa ctaggtaaac caagtaagca ttaaggatat 420
 taaa 424

<210> 148
 <211> 574
 <212> DNA
 <213> Homo sapiens

<400> 148
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 taaaagggaa ggacatgacc agatttatgt taagagttta ccagacttc tgtgcataaa 120
 atcaattagt ggaagaaaat aggctgtgat gtgacacata aggaagccag tatagaattg 180
 aataagaagt aatgaagggg cttagatgag gttaatatat ttgctaccat cagagagaat 240
 ggaacacaca tgagaaatat ctacaaagtg aatttgggtg aacttgggaa cagttgcata 300
 tgggtggacca gtttacaagg ctgatgtcga ggctgtggct tgggtgggtt gttggatgtt 360
 ggattaactg agacaaggag actgaccaag tagtttccct ctttctctgg gctttacttt 420
 cttccatagt tccttctctc tttcatagtc tagatttcta cttctcagaa aatttctctg 480
 caagacggtg gaggcaaaat gtgggaaggg atgttgacat caataggacc tgtagcctc 540
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<210> 149
 <211> 248
 <212> DNA
 <213> Homo sapiens

<400> 149
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 ctaacttaac gtaatctacc tgaaatcaat gttatgggta ctggcattga caagactgga 120
 agagaaataa cttttcgtaa cagctcatct tcacatagct aatgataggt accattgttt 180
 tttgggcaaa gtgatggggg aggatattaa ctatttcaaa gggtgttcaa aatgactaaa 240
 atataaca 248

<210> 150
 <211> 109
 <212> DNA
 <213> Homo sapiens

<400> 150
 tttagaaagg tattcttgag cactatatga aagtaacata ttactacca attgttcttg 60
 tttgaaggaa aattcctgtc ttttcagtta aaaagataag ttttgtcta 109

<210> 151
 <211> 944
 <212> DNA

<213> Homo sapiens

<400> 151

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aatTTTgctt ctgcacacag gcggaactttg aaaaatctat aataagaatc tgaaattaac 180
tggtagtatt ttggctttta cttaaaatta tccttgagag agtatttaag aaaagctgtt 240
caagttataa aatatataat ctgggaagaa atactgtctc atataataat tagattgtaa 300
tcattgtttt aatctctgtc tgggaaccaa gattgaaagc tgacttactt ctctctctcg 360
tcttgtgaac catacggagc ctattatTTT aaaatatgat cagacaagta aggcttctct 420
tactttgctc tgctctgata agaagagctc atgtgaagtc tttgagattc tcttatttat 480
catctttcta aaactgtgtt tttgagcttg acagtactga aaatgtctgg atgaagcaga 540
aaagaaaagt atgaaatgtg tttctgagca tcagagacca tctatattgc cattaccttt 600
tctagttgta tataagaatt caagattaga agaatttaga tttgttgac atTTTTttcc 660
tcagcatttt tctctctgt tttttaaaat gtattgcctc tttccccatt cagtgcact 720
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tcttttgaat atcttctatg tgaaataatt gtgagtgaca tttgaaaaag tgaatctgaa 840
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<210> 152

<211> 3897

<212> DNA

<213> Homo sapiens

<400> 152

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ggttacctta gtactccgag tagactgagt ctgtggcgag ctgcgggccg attcctggcc 120
agtgccatct cagccggagc aggcctcggg gcctcagaag caggctttta tctggcccga 180
ggctcccagc cgttcagcgc gtcttcccat aacctatacc gattattggg actctcggct 240
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aagggtgccc ctggctttaa acccctgaa gagcaaggac gtgttggcag tgctggctga 360
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ggaaatccca gcatatacat cagcatattt aattgaagaa gaactaaagg aacagctaag 480
aaaaaaacaa gaagctttga aacattttca gaaacaagtt aaataccgag taaatcaaca 540
aattagggtg agaaaaaagc aacagcttca gaagtcttat gaaagagcac aaaaagaagg 600
ctccatagcc atgcagtctt cagcaacaca cttaacttcc aaaaggacaa gtgtttttcc 660
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ccaggccatt	gagccagaag	gccagcctat	taagacagaa	actcagggtg	ttatgctgaa	1440
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cacaaatcag	gctcttctaa	cgaaaaacca	ggatgtttta	ctcaaagacc	actgtgttct	1560
ccctaaagac	cagagtattc	tactcaaata	tcaggaccag	gacttcctac	ccagagacca	1620
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gccaaaatat	caggaccaga	atcttctacc	taaggaccag	aattttttgt	ctagagacca	1800
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<210> 153

<211> 542

<212> DNA
<213> Homo sapiens

<400> 153

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gtttattcat gtttttgacc tgaacccttt tcttcgattt attattttat gtttggttac 180
ttccttctga aacggcttcc tttcattctt ttttgatttt attcctttata ttcattgttt 240
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tcagtctgac gtggataaag aagaagataa gaaagaggta tgtaatgata ctgcttttgg 480
atcccaatat ttctactatg atagtattaa tatatgagaa attggaaaca atttgttgtg 540
tc 542
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<210> 154
<211> 869
<212> DNA
<213> Homo sapiens

<400> 154

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taaagaagaa gataagaaag agcgtcaaaa gcagtacctg agacatagac gacttttcat 180
ggatattgag agagaacaag tttaaagaaca acaaaggcaa aaagaacaaa agaagaaaat 240
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aatgaacttt catgaagatc catattcagg agagaagttg agtgagatat tagcccagtt 360
acaacttcaa gaaataaaag gaaccagaga aaaacaacag agagaaaaag aatacctgag 420
atatgtagaa gctttacgag cccaaatcca ggagaaaatg cagctgtata atattacttt 480
acctccacta tgctgttggtg gtccctgattt ttgggatgct catcctgata cctgtgccaa 540
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gggcttttac ttgaaaatca tccctgagag agtattaaga aaagctgttc aagttataaa 780
atatataatc tggaaagaaa tactgtctca tataataatt agattgtaat cattgtttta 840
atctctgtct gggaaccaag attgaaagc 869
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<210> 155
<211> 1373
<212> DNA
<213> Homo sapiens

<400> 155

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gtatcaatca ggattgagca ctgaattcca agctccactg gcattttcagt ctgacgtgga 120
taaagaagaa gataagaaag agcgtcaaaa gcagtacctg agacatagac gacttttcat 180
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ggatattgag agagaacaag ttaaagaaca acaaaggcaa aaagaacaaa agaagaaaat 240
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aatgaacttt catgaagatc catattcagg agagaagttg agtgagatat tagcccagtt 360
acaacttcaa gaaataaaag gaaccagaga aaaacaacag agagaaaaag aatacctgag 420
atatgtagaa gctttacgag cccaaatcca ggagaaaatg cagctgtata atattacttt 480
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gggcttttac ttaaaatcat ccctgagaga gtattaagaa aagctgttca agttataaaa 780
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```

<210> 156

<211> 338

<212> DNA

<213> Homo sapiens

<400> 156

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<211> 15

<212> PRT

<213> Homo sapiens

<400> 160

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<210> 161

<211> 37
<212> PRT
<213> Homo sapiens

<400> 161

Met Asn Tyr Lys Leu Ser Glu Ile Ile Leu Ser Ser Lys Leu Ile Thr
1 5 10 15

Asp Val Ser Glu Ile Thr Gln Ile Met Phe Pro Phe Gln Phe Lys Ser
20 25 30

Arg Pro Phe Pro Leu
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<210> 162

<211> 94

<212> PRT

<213> Homo sapiens

<400> 162

Met Gly Gln Glu Ala Gly Val Trp Gln Val Ser Phe Cys Phe Lys Lys
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Gly Lys Gln Lys Glu Cys Gln Lys Phe Asp Phe Asn Phe Leu Ala Glu
20 25 30

Ala Phe Leu Pro Phe Ser Cys Pro Phe Phe Phe Pro Leu Pro Ser Phe
35 40 45

Pro Pro Ser Val Leu Ser Ser Phe Leu Phe Pro Leu Leu Ile Pro Phe
50 55 60

His Arg Thr Phe Cys Ala Gln Lys Met Thr Ala Ser Cys His Ala Pro
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Leu Cys Glu Ser Ser Cys Ser Leu His Cys Gln Leu His Phe
85 90

<210> 163

<211> 53

<212> PRT

<213> Homo sapiens

<400> 163

Met Thr Leu Asn Glu His Ala Ala Phe Lys His Leu Phe Asn Glu Ala
1 5 10 15

His Leu Ala Pro Pro Leu Ile His Leu Thr Leu Ser Gly His Ser Thr
20 25 30

Cys Phe Arg Glu His Arg Val Gly Gly Thr Val Pro Asp Thr Gly Asp
35 40 45

Asn Lys Glu Lys Gln
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<210> 164
<211> 31
<212> PRT
<213> Homo sapiens

<400> 164
Met Leu Ile Cys Phe Tyr Pro Asp Thr Tyr Asn Gln Val Glu Leu Gly
1 5 10 15

Ile Leu Phe Ser Leu Arg Val Gly Glu His Arg Ile Thr Leu Tyr
20 25 30

<210> 165
<211> 36
<212> PRT
<213> Homo sapiens

<400> 165
Met Ile Thr Lys Ile Ile Asn Tyr Leu Gln Ile Ile Phe Thr Gly Ile
1 5 10 15

Val Arg Pro Ile Arg Lys Asn Tyr Lys Thr Leu Trp Asp Gly Tyr Lys
20 25 30

Arg Arg Phe Glu
35

<210> 166
<211> 19
<212> PRT
<213> Homo sapiens

<400> 166
Met Phe Leu Asn Cys Thr Met Asn Tyr Lys Asn Leu Leu Ala Arg Ser
1 5 10 15

Val Leu Phe

<210> 167
<211> 22
<212> PRT
<213> Homo sapiens

<400> 167
Met Lys Cys Phe Ser Phe Cys Leu Asn Thr Thr Ser Phe Thr Val Val
1 5 10 15

Lys Val Asn Tyr Phe Pro
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<210> 168
<211> 68
<212> PRT
<213> Homo sapiens

<400> 168
Met Arg Leu Phe Ala Ile Val Gly Cys Trp Lys Phe Gly Tyr Ser Lys
1 5 10 15

Trp Tyr Ile Arg Leu Leu Phe Ala Cys Ala Pro Glu Val Phe Val Pro
20 25 30

Ala Ser Arg Ser Ala Val Ser Thr Pro Leu Ser Gln Pro Val Gly Ser
35 40 45

Thr Cys Glu Lys Leu Ser Ile Pro Gly Leu Ser Gly Arg Phe Leu Thr
50 55 60

Ser Leu Met Phe
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<210> 169
<211> 105
<212> PRT
<213> Homo sapiens

<400> 169
Phe Leu Leu Arg Gln Asp Leu Thr Leu Ser Pro Lys Leu Glu Cys Ser
1 5 10 15

Gly Ala Ile Met Ala His Cys Ser Leu Gly Leu Pro Gly Ser Ser Asn
20 25 30

Pro Ser Thr Ser Ala Ser Arg Leu Ala Gly Thr Thr Gly Ala Tyr His
35 40 45

Gln Ala Trp Leu Ile Phe Leu Ile Lys Thr Gly Val Tyr Tyr Val Ala
50 55 60

Gln Ala Gly Leu Glu Leu Leu Asp Ser Ser Asn Ser Pro Thr Leu Ala
65 70 75 80

Ser Gln Ser Asp Arg Ile Thr Gly Met Ser His His Ala Gln Pro Gly
85 90 95

Ser Pro Leu Leu Thr Ile Thr Ile Pro
100 105

<210> 170

<211> 35

<212> PRT

<213> Homo sapiens

<400> 170

Met Leu Thr Ile Ser Glu Lys Ile Ile Ser Tyr Ile Tyr Ile Leu Val
1 5 10 15

Ser Lys Asp Ala Leu Lys Ala Leu Ser Ser Ile Val His Asn Ile Pro
20 25 30

Gly Leu Phe
35

<210> 171

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (74)

<400> 171

Met Ala Leu Gly His Ile Ser Gln Trp Ser Asp Pro Gly Ser Gln Gln
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Ser Leu Leu Ser Ile Arg Asp Arg Thr Met Ala Gly Thr Leu Ser Lys
20 25 30

Val Pro His Asp Pro Glu Asp Met Cys Glu Phe Cys Ile Ile Phe Pro
35 40 45

Ser Ile Ile Leu Arg Thr Val Arg Ala Lys Val Arg Thr Leu Thr His
50 55 60

Arg Phe Val Thr Arg Arg Asn Ser Leu Xaa Thr Glu Ser Phe
65 70 75

<210> 172

<211> 32

<212> PRT

<213> Homo sapiens

<400> 172

Met Arg Pro Gly Trp Pro Leu His Phe Leu Arg Asp Val Met Asn Ser
1 5 10 15

Arg Val Thr Lys Met Gln Thr Ala Ser Ser Arg His Arg Gly Met Val
20 25 30

<210> 173

<211> 46

<212> PRT

<213> Homo sapiens

<400> 173

Met Glu Lys Asp Leu Arg Val Gln Ser Ser Gly Pro Ile Leu Pro Arg
1 5 10 15

Arg Leu Gly Lys Phe Met Arg Val Ser Gly Arg Gly His Gly Val Leu
20 25 30

Ile Asp Leu Phe Ser Gln Leu Lys Ser Ser Phe Arg Leu Ser
35 40 45

<210> 174

<211> 39

<212> PRT
<213> Homo sapiens

<400> 174
Met Val Cys Arg Cys Ser Arg Lys Leu Cys Arg Trp Tyr Val Gly Asn
1 5 10 15
Trp Ile Trp Gly Asn Ala Ala Ala Cys His Ala Leu Ser Ile Gly Arg
20 25 30
Phe Ser Pro Leu Phe Pro Pro
35

<210> 175
<211> 38
<212> PRT
<213> Homo sapiens

<400> 175
Met Asn Thr Thr Leu Leu Cys Leu Cys Arg Ile Leu Pro Glu His Gly
1 5 10 15
Gly Lys Ser Thr Gly Ile Val Val Arg Lys Leu Gly Phe Trp Pro Glu
20 25 30
Phe Ala Pro Asp Tyr Gln
35

<210> 176
<211> 36
<212> PRT
<213> Homo sapiens

<400> 176
Met Leu Ala Lys Ile Ser Lys Thr Ile Lys Pro Gly Ser Ile Glu Leu
1 5 10 15
Pro Ser Ser Tyr His Lys Val Phe Pro His Phe Leu Leu Ile Val Asn
20 25 30
Phe Leu Lys Lys
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<210> 177
<211> 51

<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (26)..(32)

<400> 177
Met Phe Ser Ser Pro Ser Asp Cys Leu Leu Ile Pro His Leu Phe Phe
1 5 10 15
Arg Ser Leu Phe Phe Ile His Trp Leu Xaa Xaa Xaa Xaa Xaa Xaa Xaa
20 25 30
Ala Phe Lys Phe Leu Leu Phe Met Arg Gln Met Tyr Leu Arg Ser Ile
35 40 45
Asp Val Ser
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<210> 178
<211> 15
<212> PRT
<213> Homo sapiens

<400> 178
Met Leu Ala Asn Thr Ile Val Ser Val Arg Lys Cys Arg Val Trp
1 5 10 15

<210> 179
<211> 57
<212> PRT
<213> Homo sapiens

<400> 179
Met Ser Ser Leu Leu Lys Ala Leu Thr Phe Trp Pro Gln Arg Met Ala
1 5 10 15
Leu Phe Val Pro Ile Arg Thr Arg Ile Leu Ile Phe Leu Leu Leu Gly
20 25 30
Pro Gly Asn Gln Arg Thr Thr Asn Thr Phe Ala Arg His Leu Gln Pro
35 40 45
Ser Arg Ser Gly Arg Pro Ser Leu Ser
50 55

<210> 180
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 180
 Met Arg Asn Ile Asn Ile Val Asp Tyr Ile Lys Ile Gly Ser Phe Cys
 1 5 10 15
 Ser Ser Thr Met Ser Glu Gly Glu Lys Ala Ser His Ile His His Pro
 20 25 30
 Tyr Ala Pro Lys Thr Gly Met Pro Arg Ala Glu Phe Arg Ala
 35 40 45

<210> 181
 <211> 47
 <212> PRT
 <213> Homo sapiens

<220>
 <221> UNSURE
 <222> (26)..(47)

<400> 181
 Met Leu Asn Met Pro Leu Thr Ile Gln Ile Met Tyr Tyr Leu Met Leu
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 Leu Ile Ile Val Leu Phe Asn Leu Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 20 25 30
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 35 40 45

<210> 182
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 182
 Met Ser Thr Ile Arg Glu His Ile Ser Leu Tyr Ile Ile Val Thr Asn
 1 5 10 15
 Ile Leu Asn Tyr Lys Glu Lys Lys Lys Lys Asp Ala Lys Val Gln Arg

20	25	30
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Leu Asn Ser Gln His Pro Thr Asp Arg Glu Tyr Leu Gly
 35 40 45

<210> 183
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 183
 Met Phe Cys Val Tyr Val Lys Pro Ser Pro Pro Val Leu Phe Ile Gly
 1 5 10 15

Gly Gly Leu Ile Ala Val Met Ala Ser Ile Asn Gly Phe Leu Val Pro
 20 25 30

Arg Pro Ser Val Val Leu Ser His Ser Asp Ser Arg Leu Asn Asn Met
 35 40 45

Ala Lys Glu Glu Ser Arg Lys Leu Glu
 50 55

<210> 184
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 184
 Met Leu Ile Phe Leu Phe Tyr Ser Ile Pro Ile Ser Arg Ala Gln Leu
 1 5 10 15

Ile Gly Gln Pro Thr Thr Gly Ser Pro Cys Trp Val
 20 25

<210> 185
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 185
 Met Pro Thr Arg Val Phe Ile Thr His Tyr Tyr Ser Ile Phe Gly Val
 1 5 10 15

Pro Val Pro Cys Ser Leu Asn Asn Pro Gln Leu

<210> 186
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 186
 Met Gln Arg Gly Lys Glu Leu Ile Val Ala Leu Phe Glu Asn Tyr Leu
 1 5 10 15
 Arg Pro Ser Leu Gly His Phe Asn Ser
 20 25

<210> 187
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 187
 Met Leu Ser Gln Phe Leu Lys Met Glu Trp Glu Val Glu Ile Ser Gln
 1 5 10 15
 Val Val Ala Gly Leu Gln His Phe His Ile Leu Gly Tyr Ile Ile Thr
 20 25 30
 Arg Cys Cys Leu Pro Ala Gly Ala Ile Thr Ala Ser Lys Ala Thr Cys
 35 40 45

Phe

<210> 188
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 188
 Met Ala Thr Lys Gln Ser Pro Leu Phe Tyr Leu Thr Gly Ser Ala Gly
 1 5 10 15
 Gly Ser Leu Val Leu Lys Pro Pro Pro Asn His Pro Tyr Arg Val Ser
 20 25 30
 Leu Arg Ala Lys Met Met Pro Gln His Pro Arg Arg Pro Leu Leu Pro

35

40

45

His Gln Leu Gly Thr Lys Tyr Ser Leu Lys Cys Phe Ala Cys Gln Thr
 50 55 60

Thr Arg Lys Gly Asn Ala Val Ser Thr Ser Ser Ile Cys Leu Cys Leu
 65 70 75 80

Val Arg Arg Ala Leu Glu Glu Phe Arg Met Gln Val Lys Ser Met Glu
 85 90 95

Gly Gly Ile Ser Phe Leu Ile Cys Lys Met Ser Leu Ile Lys Leu Ile
 100 105 110

Thr

<210> 189

<211> 31

<212> PRT

<213> Homo sapiens

<400> 189

Met Pro Gln Thr Cys Thr Tyr Ser Lys Ser Asn Ile Leu Lys Ile Tyr
 1 5 10 15

Gly Ile Asp Arg Asn Thr Phe Lys Ala Thr Ile His Thr Ala Arg
 20 25 30

<210> 190

<211> 38

<212> PRT

<213> Homo sapiens

<400> 190

Met Gln Phe Gln Ala Leu Gly Arg Arg Val Pro Asp Cys Phe Leu Tyr
 1 5 10 15

Thr Ala Ile Ile Pro Tyr Thr Ala Gly Ser Ser Phe Phe Asp Ile Leu
 20 25 30

Cys Asn Cys Arg Gly Leu
 35

<210> 191

<211> 78
<212> PRT
<213> Homo sapiens

<400> 191

Met Lys Ile Pro Ala Leu Ser Trp Val Trp Pro Ser Arg Asn Leu Leu
1 5 10 15

Ser Tyr Ile His Gly Val Leu Pro Phe Tyr Lys Leu Met Phe Cys Asn
20 25 30

His Pro Gly Tyr Phe Pro Arg Arg Lys Lys Lys Leu Val Glu Gln Gly
35 40 45

Glu Gly Cys Leu Lys Phe Gly Asn His Pro Trp Tyr Leu Asn Gln Gly
50 55 60

Lys Ala Leu Arg Ser Leu Val Leu Gly Asn Ile Leu Leu Tyr
65 70 75

<210> 192
<211> 34
<212> PRT
<213> Homo sapiens

<400> 192

Met Leu His Val Cys Ser Val Leu Ser Arg Gln Arg Leu Ala Pro Met
1 5 10 15

Lys Glu Ala Ser Glu Pro Ser Arg Arg Glu Val Phe Ser Leu Ser Asn
20 25 30

Ser Gln

<210> 193
<211> 325
<212> PRT
<213> Homo sapiens

<400> 193

Lys Val Ser Ile Leu Ser Thr Phe Leu Ala Pro Phe Lys His Leu Ser
1 5 10 15

Pro Gly Ile Thr Asn Thr Glu Asp Asp Asp Thr Leu Ser Thr Ser Ser
20 25 30

Ala	Glu	Val	Lys	Glu	Asn	Arg	Asn	Val	Gly	Asn	Leu	Ala	Ala	Arg	Pro	35	40	45
Pro	Pro	Ser	Gly	Asp	Arg	Ala	Arg	Gly	Gly	Ala	Pro	Gly	Ala	Lys	Arg	50	55	60
Lys	Arg	Pro	Leu	Glu	Glu	Gly	Asn	Gly	Gly	His	Leu	Cys	Lys	Leu	Gln	65	70	75
Leu	Val	Trp	Lys	Lys	Leu	Ser	Trp	Ser	Val	Ala	Pro	Lys	Asn	Ala	Leu	85	90	95
Val	Gln	Leu	His	Glu	Leu	Arg	Pro	Gly	Leu	Gln	Tyr	Arg	Thr	Val	Ser	100	105	110
Gln	Thr	Gly	Pro	Val	His	Ala	Pro	Val	Phe	Ala	Val	Ala	Val	Glu	Val	115	120	125
Asn	Gly	Leu	Thr	Phe	Glu	Gly	Thr	Gly	Pro	Thr	Lys	Lys	Lys	Ala	Lys	130	135	140
Met	Arg	Ala	Ala	Glu	Leu	Ala	Leu	Arg	Ser	Phe	Val	Gln	Phe	Pro	Asn	145	150	155
Ala	Cys	Gln	Ala	His	Leu	Ala	Met	Gly	Gly	Gly	Pro	Gly	Pro	Gly	Thr	165	170	175
Asp	Phe	Thr	Ser	Asp	Gln	Ala	Asp	Phe	Pro	Asp	Thr	Leu	Phe	Gln	Glu	180	185	190
Phe	Glu	Pro	Pro	Ala	Pro	Arg	Pro	Gly	Leu	Ala	Gly	Gly	Arg	Pro	Gly	195	200	205
Asp	Ala	Ala	Leu	Leu	Ser	Ala	Ala	Tyr	Gly	Arg	Arg	Arg	Leu	Leu	Cys	210	215	220
Arg	Ala	Leu	Asp	Leu	Val	Gly	Pro	Thr	Pro	Ala	Thr	Pro	Ala	Ala	Pro	225	230	235
Gly	Glu	Arg	Asn	Pro	Val	Val	Leu	Leu	Asn	Arg	Leu	Arg	Ala	Gly	Leu	245	250	255
Arg	Tyr	Val	Cys	Leu	Ala	Glu	Pro	Ala	Glu	Arg	Arg	Ala	Arg	Ser	Phe	260	265	270
Val	Met	Ala	Val	Ser	Val	Asp	Gly	Arg	Thr	Phe	Glu	Gly	Ser	Gly	Arg	275	280	285

Ser Lys Lys Leu Ala Arg Gly Gln Ala Ala Gln Ala Ala Leu Gln Glu
290 295 300

Leu Phe Asp Ile Gln Met Pro Gly His Ala Pro Gly Arg Ala Arg Arg
305 310 315 320

Thr Pro Met Pro Gln
325

<210> 194
<211> 33
<212> PRT
<213> Homo sapiens

<400> 194
Met Ala Ser Phe Leu Leu Ser Thr Pro Ala Lys Arg Lys Pro His Pro
1 5 10 15

Leu Pro Pro Ala His Pro Arg Ile His Thr Phe Arg Gln Pro Ser Gly
20 25 30

Asn

<210> 195
<211> 74
<212> PRT
<213> Homo sapiens

<400> 195
Met Ile Pro Thr Phe Val Leu Asp Ala Lys Tyr Ala Ala Leu Met Gly
1 5 10 15

Gln Pro Trp Gly Leu Cys Ala Ile Cys Val His Ile Cys Leu Leu Leu
20 25 30

Asp Ser Val Ser Leu Arg Ser Phe Ser Thr Ala Gln His Leu Glu Arg
35 40 45

Ala Ser Lys Ser Thr Ser Ser Leu His His Leu Ile Leu Ile Asn Pro
50 55 60

Ala Arg Glu Gly Cys Thr Gly Arg Thr Ala
65 70

<210> 196
<211> 97
<212> PRT
<213> Homo sapiens

<400> 196

Met Ala Asn Phe Cys Val Phe Ile Glu Thr Glu Gly Asn Ala Val Thr
1 5 10 15
Arg Arg Ala Leu Arg Lys Gln Ala Thr Ala Gly His Cys Ser Gly Lys
20 25 30
Pro Ala Phe Gln Pro Ala Pro Pro Gln Tyr Pro Arg Val His Ser Glu
35 40 45
Asp Arg Arg Leu Gln Gln Pro Gln Ala Ala Gly Arg Trp Gly Ala Pro
50 55 60
Asp Trp Ile Pro Pro Leu Gln Asp Thr Arg Lys Pro Ser Val Ser Ser
65 70 75 80
Arg Asp Ser Arg Ile His Glu Lys Glu Val Ile Leu Asp Ser Leu Cys
85 90 95
Ile

<210> 197
<211> 645
<212> PRT
<213> Homo sapiens

<400> 197

Ala Leu Arg Pro Pro Ser Gly Phe His Ile Arg Cys Leu Gly Asp Val
1 5 10 15
Ser Pro Ile Ser Met Ser Pro Ile Ser Gln Ser Gln Phe Ile Pro Leu
20 25 30
Gly Glu Ile Leu Cys Leu Ala Ile Ser Ala Met Asn Ser Ala Arg Lys
35 40 45
Pro Val Thr Gln Glu Ala Leu Met Glu His Leu Thr Thr Cys Phe Pro
50 55 60
Gly Val Pro Thr Pro Ser Gln Glu Ile Leu Arg His Thr Leu Asn Thr

65		70		75		80
Leu Val Arg Glu Arg Lys Ile Tyr Pro Thr Pro Asp Gly Tyr Phe Ile						
	85		90		95	
Val Thr Pro Gln Thr Tyr Phe Ile Thr Pro Ser Leu Ile Arg Thr Asn						
	100		105		110	
Ser Lys Trp Tyr His Leu Asp Glu Arg Ile Pro Asp Arg Ser Gln Cys						
	115		120		125	
Thr Ser Pro Gln Pro Gly Thr Ile Thr Pro Ser Ala Ser Gly Cys Val						
	130		135		140	
Arg Glu Arg Thr Leu Pro Arg Asn His Cys Asp Ser Cys His Cys Cys						
	145		150		155	160
Arg Glu Asp Val His Ser Thr His Ala Pro Thr Leu Gln Arg Lys Ser						
	165		170		175	
Ala Lys Asp Cys Lys Asp Pro Tyr Cys Pro Pro Ser Leu Cys Gln Val						
	180		185		190	
Pro Pro Thr Glu Lys Ser Lys Ser Thr Val Asn Phe Ser Tyr Lys Thr						
	195		200		205	
Glu Thr Leu Ser Lys Pro Lys Asp Ser Glu Lys Gln Ser Lys Lys Phe						
	210		215		220	
Gly Leu Lys Leu Phe Arg Leu Ser Phe Lys Lys Asp Lys Thr Lys Gln						
	225		230		235	240
Leu Ala Asn Phe Ser Ala Gln Phe Pro Pro Glu Glu Trp Pro Leu Arg						
	245		250		255	
Asp Glu Asp Thr Pro Ala Thr Ile Pro Arg Glu Val Glu Met Glu Ile						
	260		265		270	
Ile Arg Arg Ile Asn Pro Asp Leu Thr Val Glu Asn Val Met Arg His						
	275		280		285	
Thr Ala Leu Met Lys Lys Leu Glu Glu Glu Lys Ala Gln Arg Ser Lys						
	290		295		300	
Ala Gly Ser Ser Ala His His Ser Gly Arg Ser Lys Lys Ser Arg Thr						
	305		310		315	320
His Arg Lys Ser His Gly Lys Ser Arg Ser His Ser Lys Thr Arg Val						

325	330	335
Ser Lys Gly Asp Pro Ser Asp Gly	Ser His Leu Asp Ile Pro Ala Glu	
340	345	350
Arg Glu Tyr Asp Phe Cys Asp Pro Leu Thr Arg Arg Ser Asn Lys Ala		
355	360	365
Lys Glu Arg Ser Arg Ser Met Asp Asn Ser Lys Gly Pro Leu Gly Ala		
370	375	380
Ser Ser Leu Gly Thr Pro Glu Asp Leu Ala Glu Gly Cys Ser Gln Asp		
385	390	395
Asp Gln Thr Pro Ser Gln Ser Tyr Ile Asp Asp Ser Thr Leu Arg Pro		
405	410	415
Ala Gln Thr Val Ser Leu Gln Arg Ala His Ile Ser Ser Thr Ser Tyr		
420	425	430
Lys Glu Val Cys Ile Pro Glu Ile Val Ser Gly Ser Lys Glu Pro Ser		
435	440	445
Ser Ala Cys Ser Leu Leu Glu Pro Gly Lys Pro Pro Glu Ser Leu Pro		
450	455	460
Ser Tyr Gly Glu Leu Asn Ser Cys Pro Thr Lys Thr Ala Thr Asp Asp		
465	470	475
Tyr Phe Gln Cys Asn Thr Ser Thr Tyr His Lys Ser Ser Leu Ser Leu		
485	490	495
Leu Lys Ser His Pro Lys Thr Pro Ala Asp Thr Leu Pro Gly Arg Cys		
500	505	510
Glu Lys Leu Glu Pro Ser Leu Gly Thr Ser Ala Ala Gln Ala Met Pro		
515	520	525
Ala Ser Gln Arg Gln Gln Glu Ser Gly Gly Asn Gln Glu Ala Ser Phe		
530	535	540
Asp Tyr Tyr Asn Val Ser Asp Asp Asp Asp Ser Glu Glu Gly Ala Asn		
545	550	555
Lys Asn Thr Glu Glu Glu Lys Asn Arg Glu Asp Val Gly Thr Met Gln		
565	570	575
Trp Leu Leu Glu Arg Glu Lys Glu Arg Asp Leu Gln Arg Lys Phe Glu		

580

585

590

Lys Asn Leu Thr Leu Leu Ala Pro Lys Glu Thr Asp Ser Ser Ser Asn
 595 600 605

Gln Arg Ala Thr His Ser Ala Arg Leu Asp Ser Met Asp Ser Ser Ser
 610 615 620

Ile Thr Val Asp Ser Gly Phe Asn Ser Pro Arg Cys Pro Ala Ala Leu
 625 630 635 640

Lys Ala Glu Ala Ser
 645

<210> 198

<211> 29

<212> PRT

<213> Homo sapiens

<400> 198

Met Leu Leu Tyr Ser Thr Arg Gly Lys Lys His Gly Leu Tyr Pro Gln
 1 5 10 15

Gln Ser Leu Gly Asn Arg Gly Ile Tyr Leu Gln Asn Gly
 20 25

<210> 199

<211> 32

<212> PRT

<213> Homo sapiens

<400> 199

Met Val Thr Lys Lys Asn Leu Lys Ser Asn Asn Leu Val Gly Ala His
 1 5 10 15

Leu Glu Tyr Asn Ser Met Ser Ser Cys Ile Tyr Leu Ser His Ile Leu
 20 25 30

<210> 200

<211> 38

<212> PRT

<213> Homo sapiens

<400> 200

Leu Ala Asn Phe Arg Ile Phe Ser Arg Asp Arg Val Ser Pro Cys Trp
1 5 10 15

Pro Val Ala Ser Gln Thr Pro Asp Leu Lys Ala Ser Ala Cys Leu Gly
20 25 30

Leu Pro Lys Cys Trp Asp
35

<210> 201

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (12)

<220>

<221> UNSURE

<222> (15)

<400> 201

Met Ser Phe Leu Phe Leu Asp Ile Ala Lys Trp Xaa Phe Phe Xaa Phe
1 5 10 15

Leu Phe Cys Tyr Cys Phe Leu Ile Tyr Tyr Lys Met Leu Phe Phe Tyr
20 25 30

Gly Gly Phe Lys His Pro Ile Pro Cys Pro Gly Phe Leu His His Trp
35 40 45

Ile Leu Leu Ile Ile
50

<210> 202

<211> 59

<212> PRT

<213> Homo sapiens

<400> 202

Met Gln Leu Trp Gly Glu Tyr Ser Pro Tyr Phe Cys Arg Asn Asn Asn
1 5 10 15

Phe Glu Tyr Leu Cys Ala Thr Thr Val Ala Asn Thr Arg Leu Arg Cys
20 25 30

Leu Leu Leu Leu Ser Gln Pro Cys Glu Val Lys Thr Leu Ser Leu Leu
35 40 45

Thr Asp Glu Glu Thr Asp Ser Glu Asp Ile Lys
50 55

<210> 203
<211> 18
<212> PRT
<213> Homo sapiens

<400> 203
Met Arg Cys Thr Gln Gln Phe Ser Ile Leu Ala Val Phe Lys Cys Thr
1 5 10 15

Ile Gln

<210> 204
<211> 177
<212> PRT
<213> Homo sapiens

<400> 204
Met Asn Phe Leu Lys Leu Ile Ala Val Phe Ile Val Phe Ser His Ala
1 5 10 15

Ser Glu Ser Pro Gln Asp Ser Thr Pro Asn Gln Leu Tyr Ile Trp Gly
20 25 30

Arg Thr Lys Ala Leu Val Phe Phe Arg Ser Ser Thr Gly Asp Ser Asp
35 40 45

Ser Thr Ala Arg Ile Lys Lys Leu Ile Asn Gly Asn Ser Met Pro Val
50 55 60

Ala Glu Glu Leu Pro Trp Glu Met Ser His Thr Glu His Gln Ser Ser
65 70 75 80

Phe Pro Thr Pro Glu Ile Pro His Ser Leu Ala Pro Gly Thr Val Ala
85 90 95

Ile Ser Lys Pro Trp Phe Pro Ala Val Ser Gln Ile Ala Arg Val Gln

100	105	110
Arg Val Asp Ile Asn Phe Cys Ser Trp Glu Asp Leu Ser Pro Ser Gly		
115	120	125
Lys Ala Thr Gly Lys Ser Arg Thr His Cys Thr Val Thr Ala Val Ser		
130	135	140
Ser Asn Ala Thr Thr His Ala Gly Ile Asn Asn Glu His Gly Trp Gly		
145	150	155
Ser Leu Glu Leu Leu Asn Cys Lys Ala His Lys Cys Leu Asn Phe Phe		
165	170	175

His

<210> 205
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 205

Met Thr Ser Met Ala Glu Pro Gly Leu Ala Leu Tyr Leu Cys Gly His		
1	5	10
Thr Val Val Trp Ser Ser Ser Ser Leu Met Val Thr Phe Val Arg Ile		
20	25	30
Leu Ile Ser Val Phe Phe Leu Pro Gln Phe Ser Ser Ser Arg Leu Pro		
35	40	45
His Pro Cys Ser Leu Phe Met Pro Ala Trp Val Val Ala Leu Asp Glu		
50	55	60
Thr Ala Val Thr Val Gln Cys Val Leu Leu Phe Pro Val Ala Phe Pro		
65	70	75
Leu Gly Glu Arg Ser Ser His Glu Gln Lys Phe Ile Ser Thr Arg Trp		
85	90	95
Thr Leu Ala Ile Cys Glu Thr Ala Gly Asn Gln Gly Leu Leu Ile Ala		
100	105	110
Thr Val Pro Gly Ala Lys Glu		
115		

<210> 206
<211> 33
<212> PRT
<213> Homo sapiens

<400> 206
Met Leu Ile Ser Lys Ile Ile Ile Gly Ile Lys Thr Gln Arg Tyr Leu
1 5 10 15
Ile Glu Lys Ser His Arg Ser Pro Arg Ile Tyr Ile Tyr Leu Gly Leu
20 25 30
Ala

<210> 207
<211> 126
<212> PRT
<213> Homo sapiens

<400> 207
Leu Pro Cys Ser Asn Phe Phe Phe Phe Ser Phe Ser Leu Phe Leu Val
1 5 10 15
Phe Ile Phe Ser Ala Ile Ser Arg Ile Phe Leu Leu Leu Ala Met Ser
20 25 30
Gln Ser Ile Met Ala Leu Ser Pro Arg Leu Glu Cys Asn Gly Ala Val
35 40 45
Ser Gly His Cys Asn Pro Cys Leu Pro Gly Ser Ser Asp Ser Pro Pro
50 55 60
Ser Ala Ser Gln Val Ala Gly Ile Thr Gly Thr Cys His His Ala Arg
65 70 75 80
Leu Ile Phe Val Phe Leu Val Glu Met Gly Phe His His Val Gly Gln
85 90 95
Ala Gly Leu Glu Leu Leu Thr Ser Gly Asp Leu Pro Thr Ser Ala Ser
100 105 110
Gln Ser Ala Gly Ile Thr Gly Val Ser His Arg Ala Arg Pro
115 120 125

<210> 208
<211> 88
<212> PRT
<213> Homo sapiens

<400> 208
Met Val Tyr Lys Leu Glu Trp His Ile Ala Phe Leu Arg Ile Leu Arg
1 5 10 15
Gln Arg Pro Gly Phe Gly Ala Lys Ile Lys Gly Trp Met Ser His Leu
20 25 30
Pro Trp Tyr Gly Asn Ala Ser Val Leu Thr Ser Ala Gln Ser Asn Leu
35 40 45
Lys Leu Ile Ser Pro Ser Arg Phe Phe Leu Leu Phe Leu Ala Arg Glu
50 55 60
Lys Ile Thr Ser Ala Phe Phe Phe Arg Arg Val Lys Lys Lys Glu His
65 70 75 80
His Ser Ile Ser Gln Asn Cys Ile
85

<210> 209
<211> 52
<212> PRT
<213> Homo sapiens

<400> 209
Met Ser Leu His Cys Val Thr Asn Thr Asp Leu Val Ser Lys Trp Cys
1 5 10 15
Arg Arg Thr Gln Ala Thr Thr Arg Asn Glu Pro Ser Leu Cys Asp Gln
20 25 30
Gly Gly Pro Gly Arg Gln Thr Pro Ala His Glu Gly Arg Thr Val Val
35 40 45
Ala Met Thr Ser
50

<210> 210
<211> 63
<212> PRT
<213> Homo sapiens

<400> 210
Met Arg Leu Pro Asp Asp Ser Cys Pro Ser Cys Ser Gly Leu Pro Ala
1 5 10 15
Glu Lys Ser Cys Thr His Arg Ala Leu Leu Gly Phe Leu Thr Cys Gly
20 25 30
Ile His Asp Pro Val Thr Pro Leu Ser Ser Val Met Val His Tyr Asn
35 40 45
Asn Arg Ser Pro Asp His Gly Asn Tyr Phe Ser Ser Ser Thr Leu
50 55 60

<210> 211
<211> 104
<212> PRT
<213> Homo sapiens

<400> 211
Met Asp Phe Glu Phe Ile Phe Phe Pro Leu Lys Lys Gly Asn Pro Leu
1 5 10 15
Ile Ala Lys Ser His Leu Gln Ile Val Lys Gln Thr Ser Gln Ile Thr
20 25 30
Lys Cys Phe Leu Cys Lys Gln Lys Ile Cys Phe Ala Gly Lys Gly Ile
35 40 45
Leu Leu Leu Asn Thr Gly Thr Val Ser Val Ile Leu Arg Met Gly Thr
50 55 60
Val Pro Tyr Asn Leu Phe Leu Lys Tyr Leu Leu Leu Gly Leu Ser
65 70 75 80
Gln Ala Pro Ile Phe Ser Val Val Met Lys Lys Asn Tyr Gln Ala Thr
85 90 95
Ser Trp Val Phe Phe Ser Leu Phe
100

<210> 212
<211> 57
<212> PRT
<213> Homo sapiens

<400> 212

Met	Ile	Glu	Leu	Leu	Ser	Pro	Tyr	Gln	Leu	Arg	Glu	Leu	Phe	Cys	Ser
1				5				10					15		
Leu	Thr	His	Val	Gly	Arg	Thr	Val	Arg	Trp	Ser	Glu	Gln	Trp	Asn	Leu
			20				25					30			
Leu	Val	Ala	Gln	Val	Leu	Glu	Val	Tyr	Ser	Asn	Gly	Gly	Arg	Thr	Gln
		35				40						45			
Leu	Gly	Ile	Trp	Phe	Leu	Leu	Ser	Lys							
	50					55									

<210> 213

<211> 31

<212> PRT

<213> Homo sapiens

<400> 213

Met	Leu	Glu	Phe	Gly	Lys	Cys	Lys	Phe	Cys	Phe	Ala	Asp	Glu	Ile	Phe
1				5				10					15		
Leu	Leu	Asn	Phe	Asn	Thr	Leu	Lys	Gly	Ile	Pro	Val	Phe	Asn	Tyr	
			20				25					30			

<210> 214

<211> 37

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (29)..(32)

<220>

<221> UNSURE

<222> (36)

<400> 214

Met	Leu	Ile	Glu	Val	Phe	Lys	Gly	Ile	Tyr	Lys	Leu	Asn	Thr	Leu	His
1				5				10				15			
Asn	Tyr	Gln	Leu	Asn	Lys	Cys	Phe	Tyr	His	Met	Gln	Xaa	Xaa	Xaa	Xaa
			20				25					30			
Phe	Phe	Leu	Xaa	Arg											

<210> 215

<211> 131

<212> PRT

<213> Homo sapiens

<400> 215

Met Gly Gln Lys Ile Ser Arg Gln Pro Tyr Ser Gly Ser Trp Ser Leu
 1 5 10 15

Phe Ser Cys Ser Asp Pro Gln Lys Ala Ser Lys Ser Leu Asn Leu Glu
 20 25 30

Thr Arg Gln Phe Phe Leu Ile Ser Cys Leu Lys Ala Val Gln Ser Ser
 35 40 45

Val Asn Lys Pro Leu His Ala Gly Leu Ile Asn Ala Gly Pro Leu Arg
 50 55 60

Ala Met Thr Gln Glu His Gly Leu Gly Ser Thr Leu Lys Ser Arg Asn
 65 70 75 80

His Ser Thr Asp Asn Gly Asn Phe Val Gly Gly Asn Arg Leu Leu Glu
 85 90 95

Leu Asn Ala Phe Val Arg Phe Leu Asp Leu Gln Ile Ser Leu Cys Gly
 100 105 110

Pro Ala Leu Gly Gly Lys Ala Gly Ile His Asn Asn Leu Ile Asn Leu
 115 120 125

Thr Gln Thr
 130

<210> 216

<211> 57

<212> PRT

<213> Homo sapiens

<400> 216

Met Glu Phe Arg Cys Gln Leu Ile Pro Arg Leu Ile Leu Ser Tyr Ile
 1 5 10 15

Lys Val Asn Asp Ile Leu His Glu Ile Met Leu Val Glu Pro Thr Arg
 20 25 30

Leu Leu Ala Met Leu Pro Ser Leu Ser Ser Leu Asp Phe Leu Phe Lys
35 40 45

Ser Leu Tyr Arg Val Thr Val Glu His
50 55

<210> 217
<211> 67
<212> PRT
<213> Homo sapiens

<400> 217
Met Cys Glu Leu Pro Leu Leu Leu Cys Asn Ser Ile Leu Phe Met Ile
1 5 10 15

Cys Asp Val Ile Arg Lys Phe Leu Leu Met Cys Gln Asn Lys Phe Asn
20 25 30

Phe Pro Leu Arg Gln Phe Ile Thr Leu Phe Lys Trp Asn Ile Lys Glu
35 40 45

Glu Pro Pro Ile Cys Lys Ile Leu Thr Phe Lys Phe Met Leu Ile Phe
50 55 60

Leu Asn Tyr
65

<210> 218
<211> 69
<212> PRT
<213> Homo sapiens

<400> 218
Met Ser Cys Leu Ser Tyr Gly Phe Lys Tyr Leu Gln Cys Ile Ala Lys
1 5 10 15

Tyr Cys Ser Cys Thr Leu Gln Leu Arg Asn Thr Val Leu Gly Phe Gln
20 25 30

Gln Lys Tyr Leu Arg Ile Ser His Ser Ser Leu Lys Lys Asp Ala Lys
35 40 45

Asp Val Thr Gly Ile Ile Ile Val Ala Val Ser Cys Arg Ile Lys Asp
50 55 60

Arg Thr Arg Tyr Gly

65

<210> 219

<211> 29

<212> PRT

<213> Homo sapiens

<400> 219

Met Leu Trp Ser Leu Tyr Ile Ser Phe Lys Val Val Ala Asn Lys Arg
1 5 10 15

Met Pro Ile Gln Gly Ile Tyr Trp His Phe His Gly Gly
20 25

<210> 220

<211> 26

<212> PRT

<213> Homo sapiens

<400> 220

Met Asn Phe Asp Cys Ala Ser Ala Ile Leu Asp Ile Phe Val Met Ile
1 5 10 15

Gly Asn Arg Thr Ile Lys Cys Leu Ala Leu
20 25

<210> 221

<211> 41

<212> PRT

<213> Homo sapiens

<400> 221

Met Leu Phe Leu Asn Trp Ala Pro Ser Ser Asp Phe Ala Asn Leu Lys
1 5 10 15

Ser Ile Thr Cys Leu Cys Leu Ser Lys Asn Pro Ser Ile Pro Ser Ser
20 25 30

Leu Ile Ala Pro Cys Tyr Ser Pro Val
35 40

<210> 222

<211> 45

<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (31)..(39)

<220>
<221> UNSURE
<222> (42)..(43)

<400> 222
Met Thr Ile Trp Gln Arg Tyr Phe Ser Tyr Asn Glu Lys Tyr Leu Cys
1 5 10 15
Pro Ile Ser Leu Lys Ser Asp Val Glu Lys Leu Tyr Ile Tyr Xaa Xaa
20 25 30
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ile Leu Xaa Xaa Leu Leu
35 40 45

<210> 223
<211> 31
<212> PRT
<213> Homo sapiens

<400> 223
Met Phe Gln Ser Val Arg Glu Met Ser Leu Ser Gly Ser Ile Pro Ala
1 5 10 15
Asn Asn Glu Glu Gly Met Arg Gln Ala Gln Trp His Ser Arg Leu
20 25 30

<210> 224
<211> 48
<212> PRT
<213> Homo sapiens

<400> 224
Phe Phe Phe Phe Phe Leu Arg Gln Ser Phe Thr Leu Ser Gln Ala Gly
1 5 10 15
Val Ala Trp His Asp Leu Gly Ser Leu His Pro Pro Leu Pro Gly Ser
20 25 30
Ser Asp Ser Arg Ala Ser Ala Ser Gln Ser Ala Arg Ile Thr Gly Val

<210> 225
 <211> 30
 <212> PRT
 <213> Homo sapiens

<400> 225
 Met Tyr Gln Lys Lys Pro Ile Arg Leu Lys Val Leu Lys Thr Arg Tyr
 1 5 10 15
 Lys Tyr Ser His Arg Tyr Val Ser Glu Thr Tyr Leu Phe Gln
 20 25 30

<210> 226
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 226
 Met Asn Gln Asn Leu His His Leu Tyr Asn Lys Arg Ser Glu Ser Ile
 1 5 10 15
 Ala Cys Leu Ala Trp His Val Gly Arg Val Ala Lys Asp Gln Cys Ser
 20 25 30
 Leu Met Tyr Phe Phe Lys Leu Ser Asn Asn Ile His
 35 40

<210> 227
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 227
 Met Leu Ile Ser Phe Trp Leu Leu Thr His Ala Ala Phe Ser Gly His
 1 5 10 15
 His Met Ala Leu Lys Gln Arg Ser Val Cys Ile His Ser Pro Tyr Glu
 20 25 30
 Ala Tyr Val Asn Ile Asn His Gly Met Phe Pro Asn Ile Leu Leu Ile

Phe Ala Ser Gln Leu Gly Ser Leu Ile
 50 55

<210> 228
 <211> 101
 <212> PRT
 <213> Homo sapiens

<220>
 <221> UNSURE
 <222> (32)..(73)

<400> 228
 Met Phe His Val Phe Ser Cys Ser Arg Ser Asp Leu Ala Thr Pro Gly
 1 5 10 15
 Asp Thr Phe Gly Tyr Thr Asn Arg Val Tyr Leu Gly Gln Arg Trp Xaa
 20 25 30
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 35 40 45
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 50 55 60
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 65 70 75 80
 Ser Pro Leu Ser Pro Thr Met Leu Val Leu Leu Thr Trp Leu Leu Ile
 85 90 95
 Lys Gln Cys Gln Val
 100

<210> 229
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 229
 Met Leu His Ser Pro Gly Leu Thr Arg Gly Trp Pro Gln Lys Arg Val
 1 5 10 15
 Gly Glu Ala Gly Gln Gln Gly Leu Ala Glu Ile Ile Cys Arg Ala Gln

	20		25		30										
Glu	Ala	Gly	Glu	Arg	Arg	Gln	Phe	Gln	Gly	Pro	Phe	Val	Arg	Gln	Val
		35					40					45			
Pro	Gly	Ala	Gln	Pro	Gly	Arg	Gln	Glu	Gly	Leu	Ser	Pro	Ser	Pro	Arg
	50				55						60				
Gln	Glu	Gly	Ser	Gln	Ala	Glu	Ala	Pro	Pro	Ser	Gly	Thr	Pro	Gln	Pro
	65				70					75					80
Thr	Pro	Ala	Ala	Leu	Gly	Gln	Asp								
					85										

<210> 230
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 230
 Met Glu Ala Thr Gly Val Thr Phe Ser Ser Phe Val Phe Glu Gln Gly
 1 5 10 15
 Met Ser Val Leu Ser Leu Lys
 20

<210> 231
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 231
 Met Lys Thr Glu Asp Ile Lys Cys Ala Arg Val Arg Ser Leu Ser His
 1 5 10 15
 Ala Lys Gly Lys Val Lys Ile Ala Phe Phe His Ile Val Ser Glu Val
 20 25 30
 Gln Leu Leu Arg Leu Ile Asn Glu Ser Cys Ser Ile Lys Gly Leu Thr
 35 40 45

<210> 232

<211> 25
<212> PRT
<213> Homo sapiens

<400> 232
Met Arg Tyr Ile His Val Glu Phe Cys Ser Cys Gly Leu Met Ile Phe
1 5 10 15

Thr Leu Tyr Ser Ile Thr Phe His Gly
20 25

<210> 233
<211> 55
<212> PRT
<213> Homo sapiens

<400> 233
Met Leu Pro Thr Pro Val Pro Thr Ile Glu Ala Leu Leu Phe Met Leu
1 5 10 15

Lys Cys Gln Val Leu Thr Val His Gly Ser Met Glu Thr Phe Leu Leu
20 25 30

Phe Ser Val Val Leu Gly Ala Ser Leu Leu Val Asn Leu Arg Lys Ile
35 40 45

Gly Asp Ser Val Asn Leu Glu
50 55

<210> 234
<211> 148
<212> PRT
<213> Homo sapiens

<400> 234
Met Gly Arg Ile Arg Pro Asp His Thr Leu Leu Phe Gln Arg Gly Pro
1 5 10 15

Val Pro Ala Pro Leu Thr Ser Gly Leu His Tyr Tyr Thr Thr Leu Glu
20 25 30

Glu Leu Trp Lys Ser Phe Asp Leu Cys Glu Asp Tyr Phe Lys Pro Pro
35 40 45

Phe Gly Pro Tyr Pro Glu Lys Ser Gly Lys Asp Ser Leu Val Ser Met
50 55 60

Lys Cys Ser Leu Phe Arg Phe Cys Pro Trp Ser Lys Glu Leu Pro Phe
65 70 75 80

Gln Pro Pro Glu Gly Ser Ile Ser Ser His Leu Gly Ser Gly Ala Ser
85 90 95

Asp Ser Glu Thr Glu Glu Thr Arg Lys Ala Leu Pro Ile Gln Ser Phe
100 105 110

Ser His Glu Lys Glu Ser His Gln His Arg Gln His Ser Val Pro Val
115 120 125

Ile Ser Arg Pro Gly Ser Asn Val Lys Pro Thr Leu Pro Pro Ile Pro
130 135 140

Gln Gly Arg Arg
145

<210> 235

<211> 940

<212> PRT

<213> Homo sapiens

<400> 235

Glu Tyr Thr Ser Phe Ser Ala Leu His Asn Thr Tyr Ser Lys Ile Asp
1 5 10 15

His Ile Val Gly Ser Lys Ala Leu Leu Ser Lys Cys Lys Arg Thr Glu
20 25 30

Met Ile Thr Asn Cys Leu Ser Asp His Ser Ala Ile Lys Leu Glu Leu
35 40 45

Arg Ile Lys Lys Leu Thr Gln Asn Cys Ser Thr Thr Trp Lys Leu Asn
50 55 60

Asn Leu Leu Leu Asn Asp Tyr Cys Val His Asn Lys Met Lys Ala Glu
65 70 75 80

Ile Lys Met Phe Phe Glu Thr Asn Glu Asn Lys Asp Thr Thr Tyr Gln
85 90 95

Asn Leu Trp Asp Thr Phe Lys Ala Val Cys Arg Gly Asn Phe Ile Ala
100 105 110

Leu Asn Val His Lys Arg Lys Gln Glu Arg Ser Lys Ile Asp Thr Leu

115		120		125
Ile Ser Gln Leu Lys Glu Leu Glu Lys Gln Glu Gln Thr His Ser Lys				
130		135		140
Ala Ser Arg Arg Gln Glu Ile Thr Lys Ile Arg Ala Glu Val Lys Glu				
145		150		155
				160
Ile Glu Thr Gln Lys Thr Phe Lys Arg Ile Asn Glu Ser Arg Asn Trp				
	165		170	175
Phe Phe Glu Arg Ile Ser Lys Ile Asp Arg Pro Leu Ala Arg Leu Ile				
	180		185	190
Lys Lys Lys Arg Glu Lys Asn Gln Ile Asp Ala Ile Asn Thr His Asp				
	195		200	205
Lys Gly Asp Ile Thr Thr Asp Pro Thr Glu Ile Gln Thr Thr Ile Arg				
	210		215	220
Glu Tyr Tyr Lys His Phe Tyr Ala Asn Lys Leu Glu Asn Leu Glu Glu				
225		230		235
				240
Met Asp Lys Phe Leu Asp Thr Tyr Thr Leu Pro Arg Leu Asn Gln Glu				
	245		250	255
Glu Ala Glu Ser Leu Asn Arg Pro Ile Thr Asp Ser Glu Ile Ala Ala				
	260		265	270
Ile Ile Asn Ser Leu Pro Thr Lys Lys Ser Pro Gly Pro Asp Gly Phe				
	275		280	285
Thr Pro Lys Phe Tyr Gln Arg Tyr Lys Glu Glu Leu Val Pro Phe Leu				
	290		295	300
Leu Lys Leu Phe Gln Ser Ile Thr Lys Glu Gly Ile Leu Pro Asn Ser				
305		310		315
				320
Phe Tyr Glu Ala Asn Ile Ile Leu Ile Leu Lys Pro Gly Arg Asp Thr				
	325		330	335
Thr Lys Lys Arg Glu Phe Arg Pro Ile Ser Met Met Ile Ile Asp Ala				
	340		345	350
Lys Ile Leu Ser Lys Ile Leu Ala Asn Gln Ile Gln Gln His Leu Ile				
	355		360	365
Lys Leu Ile His His Asp Gln Val Gly Phe Ile Pro Gly Met Lys Gly				

370	375	380
Trp Phe Asn Ile Arg Lys Ser Ile Lys Val Ile His His Ile Asn Arg		
385	390	395 400
Thr Lys Asp Lys Asn His Met Ile Ile Ser Ile His Ala Glu Lys Ala		
	405	410 415
Phe Asp Lys Ile Gln Gln Pro Phe Met Leu Lys Thr Val Asn Lys Leu		
	420	425 430
Val Ile Asp Gly Thr Tyr Leu Lys Ile Ile Arg Ala Ile Tyr Asp Lys		
	435	440 445
Pro Thr Ala Asn Ile Ile Leu Asn Gly Gln Lys Leu Glu Ala Phe Pro		
	450	455 460
Leu Arg Thr Gly Ile Arg Gln Gly Cys Pro Leu Ser Pro Leu Leu Phe		
465	470	475 480
Asn Ile Val Leu Glu Val Leu Ala Arg Ala Ile Arg Gln Glu Lys Glu		
	485	490 495
Ile Lys Gly Ile Gln Leu Gly Lys Glu Lys Val Lys Leu Ser Leu Phe		
	500	505 510
Ala Asp Asp Met Ile Leu Tyr Leu Glu Asn Pro Ile Val Ser Ala Gln		
	515	520 525
Asn Leu Leu Lys Leu Met Ser Ser Phe Ser Lys Val Ser Gly Tyr Lys		
	530	535 540
Ile Asn Val Gln Lys Ser Gln Ala Phe Leu Tyr Thr Asn Asn Arg Gln		
545	550	555 560
Thr Glu Ser Gln Met Ser Glu Leu Pro Phe Ala Ile Ala Ser Lys Arg		
	565	570 575
Ile Lys Tyr Leu Gly Ile Gln Leu Thr Arg Asp Val Lys Asp Leu Phe		
	580	585 590
Lys Glu Asn Tyr Lys Pro Leu Leu Asn Lys Ile Lys Glu Asp Thr Asn		
	595	600 605
Lys Trp Lys Asn Ile Pro Cys Ser Trp Ile Gly Arg Ile Asn Ile Val		
610	615	620
Lys Met Ala Ile Met Pro Lys Val Ile Tyr Arg Phe Asn Ala Ile Pro		

625		630		635		640
Ile Lys Leu Pro Met Thr Phe Phe Thr Glu Leu Glu Lys Thr Thr Leu						
	645		650		655	
Lys Phe Ile Trp Asn Gln Lys Arg Ala Arg Ile Ala Lys Thr Ile Leu						
	660		665		670	
Ser Gln Lys Asn Lys Ala Gly Gly Ile Thr Leu Pro Asp Phe Lys Leu						
	675		680		685	
Tyr Tyr Lys Ala Thr Val Thr Lys Thr Ala Trp Tyr Trp Tyr Gln Asn						
	690		695		700	
Arg Asp Ile Asp Gln Trp Asn Arg Ile Glu Pro Leu Glu Leu Ile Pro						
705		710		715		720
His Ile Tyr Asn His Leu Ile Phe Asp Lys Pro Asp Lys Asn Lys Leu						
	725		730		735	
Trp Gly Lys Asp Ser Leu Phe Asn Lys Trp Cys Trp Glu Asn Trp Leu						
	740		745		750	
Ala Ile Cys Arg Lys Leu Lys Leu Asn Leu Phe Leu Thr Pro Tyr Thr						
	755		760		765	
Lys Ile Asn Ser Arg Trp Ile Lys Asp Leu Asn Val Arg Pro Lys Thr						
	770		775		780	
Ile Lys Ile Leu Glu Lys Asn Leu Gly Asn Thr Ile Gln Asp Ile Gly						
785		790		795		800
Val Gly Lys Asp Phe Met Thr Lys Thr Pro Lys Ala Met Ala Thr Lys						
	805		810		815	
Ala Lys Ile Asp Lys Trp Asp Ile Ile Lys Leu Lys Ser Phe Cys Thr						
	820		825		830	
Ala Lys Glu Thr Thr Ile Ile Val Asn Arg Gln Pro Thr Glu Trp Glu						
	835		840		845	
Lys Ile Phe Lys Ile Tyr Pro Ser Asp Lys Gly Leu Ile Ser Arg Ile						
	850		855		860	
Tyr Lys Glu Leu Lys Gln Ile Tyr Lys Lys Lys Ser Asn Asn Pro Ile						
865		870		875		880
Lys Asn Trp Ala Lys Asp Met Asn Arg His Phe Ser Lys Glu Asp Ile						

885

890

895

Tyr Ala Val Asn Arg His Met Lys Thr Cys Ser Ser Leu Leu Ala Ile
 900 905 910

Arg Glu Met Gln Ile Lys Thr Thr Met Arg Tyr His Phe Thr Pro Val
 915 920 925

Arg Met Ala Ser Ile Lys Lys Ser Gly Asn Asn Arg
 930 935 940

<210> 236

<211> 58

<212> PRT

<213> Homo sapiens

<400> 236

Met Ala Ile Glu Val Cys Trp Pro Leu Pro Leu Asp Gly Leu Leu Leu
 1 5 10 15

Leu Ala Leu Glu Phe Leu Arg Pro Leu Phe Ile Ile Pro Gln Ser Phe
 20 25 30

Phe Leu Leu Pro Ala Met Leu Cys Leu Phe Phe Ala Leu Leu Ser Pro
 35 40 45

Arg Thr Thr Phe Phe His Phe His Ser Gly
 50 55

<210> 237

<211> 34

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (28)

<400> 237

Met Pro Leu His Leu Gly Tyr Lys Val Ser Pro Pro Pro Gln Ser His
 1 5 10 15

Gly Leu Ala Asn Tyr Leu Ser Val Phe Asp Cys Xaa Val Val Ser Thr
 20 25 30

Gly Glu

<210> 238
<211> 27
<212> PRT
<213> Homo sapiens

<400> 238
Met Arg Lys Val Cys Val Pro Ala Phe Met Thr Ile Glu Ser Arg Gln
1 5 10 15
Leu Leu Ser Gly Val Ser Ala Cys Phe Gln Gln
20 25

<210> 239
<211> 26
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (22)

<400> 239
Met Thr Ser Ile Thr Val Leu Phe Ser Lys Lys Arg Leu Ser Leu Met
1 5 10 15
Ala Ser Arg Cys Val Xaa Leu Met Arg Tyr
20 25

<210> 240
<211> 45
<212> PRT
<213> Homo sapiens

<400> 240
Met Lys Ser Gln Leu Gln Ser Leu His Pro Phe Phe Ser Lys Leu Ala
1 5 10 15
Leu Leu Val Ser Val Leu Phe Tyr Ile Ile Trp Leu His Leu Thr Val
20 25 30
Phe Lys Lys Ser Ser Val Leu Gln Lys Asn Phe Lys Leu
35 40 45

<210> 241
<211> 65
<212> PRT
<213> Homo sapiens

<400> 241
Met Ile Gly Ile Thr Trp Cys Phe Glu Leu Ile His Pro Thr Leu Glu
1 5 10 15
Leu Thr Ala Thr Val Pro Asp Phe His Arg Tyr Ala Ser Phe His Ser
20 25 30
Gly Ser Leu Pro Glu Val Leu His Ser Gly Glu His Ala Gln Val Ser
35 40 45
Pro Ala Leu Gln Asn His Pro Glu Cys Gln Arg Leu Gln His Lys Gly
50 55 60

Lys
65

<210> 242
<211> 42
<212> PRT
<213> Homo sapiens

<400> 242
Ile Phe Thr Ala Met Pro Pro Phe Thr Leu Gly Val Phe Gln Arg Ser
1 5 10 15
Cys Thr Arg Glu Ser Met Leu Arg Phe Pro Gln Leu Tyr Lys Ile Thr
20 25 30
Gln Asn Ala Lys Asp Phe Asn Thr Arg Val
35 40

<210> 243
<211> 40
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (2)

<400> 243

Met Xaa Leu Val Leu Leu Thr Arg Leu Ile Arg Arg Ser Leu Tyr Thr
1 5 10 15

Lys Arg Asn Leu Leu Ser His Ser His Asn Lys Thr Ser His Gln Thr
20 25 30

Asn Asp Thr Lys Ser Glu Asn His
35 40

<210> 244

<211> 56

<212> PRT

<213> Homo sapiens

<400> 244

Met Phe Pro Glu Leu Ala Ser Leu Tyr Pro Gly Lys Gly Thr Ser Phe
1 5 10 15

Ser Trp Ala Val Pro Pro Pro Gln Lys Pro Glu Ser Gln Pro Cys Arg
20 25 30

Val Pro Ser Ser Ser Phe Gln Ile Gln Ile Thr Pro Thr Ser Ser Leu
35 40 45

Gly Ser Pro Ser Leu Arg Thr Gln
50 55

<210> 245

<211> 26

<212> PRT

<213> Homo sapiens

<400> 245

Met Lys Lys Pro Glu Ala Glu Ala Ala Leu Thr Leu Arg Asn Pro Val
1 5 10 15

Ser Gln Arg Asp Leu Ala Ile Leu Ala Ser
20 25

<210> 246

<211> 43

<212> PRT

<213> Homo sapiens

<400> 246

Met Pro Ile Tyr Pro Cys Pro Cys Arg Val Gly Arg Lys Asn Leu Met
1 5 10 15

Leu Ala Asn Ser Pro His Phe Asn Ser Thr Leu Gln Thr Leu Ser Lys
20 25 30

Cys Leu Leu Phe Val Arg Gln Tyr Ala Ser His
35 40

<210> 247

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (12)..(33)

<400> 247

Met Lys Gln Trp Asp Ala Val Arg Lys Arg Lys Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
20 25 30

Xaa Cys Arg Gly Lys Val Asn Lys Asn Cys Ile Ile Leu Gly Val Phe
35 40 45

Cys

<210> 248

<211> 24

<212> PRT

<213> Homo sapiens

<400> 248

Met Pro Tyr Asp Ser Thr Tyr Ile Lys Ser Lys His Gln Ala Val Leu
1 5 10 15

Ser Met Ile Val Lys Leu Val Gly
20

<210> 249

<211> 30
<212> PRT
<213> Homo sapiens

<400> 249
Met His Ile Ser Phe Gly Ile Gln Ile Ile Val Asn Asp Gly Glu Leu
1 5 10 15

Thr Ser Asn Ile Ser Ser Tyr Thr Thr Asn Val Ile Lys Pro
20 25 30

<210> 250
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (136)

<400> 250
Met Pro Ser Val Arg Ala His Pro Asn Pro Arg Ala Glu Gly His Glu
1 5 10 15

Gly Ala Lys Ser Leu Arg Asn Ala Ile Leu Arg Leu Val Arg Asp Met
20 25 30

Glu Ile Arg Thr Gln Gly Gly Pro Gly Leu Gly Asn Asp Trp Glu Thr
35 40 45

Cys Leu Gly Ser Gln Asp Leu Gly Val Leu Thr Pro Ser Pro His Pro
50 55 60

Ala Val Pro Ser Val Pro Ser Pro Ser Leu Ser Lys Pro Leu Gly Ile
65 70 75 80

Glu Trp Pro Leu Leu Phe Trp Cys Pro Gly Val Ile Val Pro Lys Leu
85 90 95

Leu Phe Pro Val Pro Ser Pro Gln Arg Leu Val Arg Val Gly Met Arg
100 105 110

Asp Gly Glu Gly Leu Gly Leu Trp Glu Gln Val Gly Gly Leu Ile Cys
115 120 125

Gly Leu Ser Asp Ser Gln Leu Xaa Pro Arg Trp Gly Met Ser Pro Ser
130 135 140

Leu Leu Ser Val Trp Val Arg Lys Thr Gly Cys Asp Pro Glu Glu Gly
 145 150 155 160

Lys Ile Glu Lys Glu Gly Lys Asp Val Gly Glu Gly Gly Glu Arg Gln
 165 170 175

Asp Arg Arg Lys Glu Val Glu Glu Glu Val Val Gly Ile Gly Met Arg
 180 185 190

<210> 251
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 251
 Met Gln Phe Cys Lys Ile Lys Cys Leu Ser Arg His Ala Tyr Asn Pro
 1 5 10 15

Ala Ile Ala Cys Leu Gly Ala Tyr Leu Thr Glu Met Asn Ile Tyr Asn
 20 25 30

Tyr Ile Ile Ile Cys Thr Pro Asn Ser Ser Gln Leu Tyr
 35 40 45

<210> 252
 <211> 169
 <212> PRT
 <213> Homo sapiens

<400> 252
 Met Ala Pro Ser Glu Asp Pro Arg Asp Trp Arg Ala Asn Leu Lys Gly
 1 5 10 15

Thr Ile Arg Glu Thr Gly Leu Glu Thr Ser Ser Gly Gly Lys Leu Ala
 20 25 30

Gly His Gln Lys Thr Val Pro Thr Ala His Leu Thr Phe Val Ile Asp
 35 40 45

Cys Thr His Gly Lys Gln Leu Ser Leu Ala Ala Thr Ala Ser Pro Pro
 50 55 60

Gln Ala Pro Ser Pro Asn Arg Gly Leu Val Thr Pro Pro Met Lys Thr
 65 70 75 80
 Tyr Ile Val Phe Cys Gly Glu Asn Trp Pro His Leu Thr Arg Val Thr
 85 90 95
 Pro Met Gly Gly Gly Cys Leu Ala Gln Ala Arg Ala Thr Leu Pro Leu
 100 105 110
 Cys Arg Gly Ser Val Ala Ser Ala Ser Phe Pro Val Ser Pro Leu Cys
 115 120 125
 Pro Gln Glu Val Pro Glu Ala Lys Gly Lys Pro Val Lys Ala Ala Pro
 130 135 140
 Val Arg Ser Ser Thr Trp Gly Thr Val Lys Asp Ser Leu Lys Ala Leu
 145 150 155 160
 Ser Ser Cys Val Cys Gly Gln Ala Asp
 165

<210> 253
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 253
 Met Phe Asn Val Arg Leu His Gln Asn Met Cys Gln Leu Thr Met Phe
 1 5 10 15
 Asn Met Phe His Leu Gln Asn Phe Leu Glu Gly Lys Lys Ser Phe Leu
 20 25 30
 Val Asn Met Phe Phe Cys Leu Cys Phe Ile Ile Leu Ser Thr Met Asp
 35 40 45
 Thr Gly Asn Gln Ser Thr Val Asn Asn His Arg His His Phe Val Val
 50 55 60
 Leu Phe Leu Arg Val
 65

<210> 254
 <211> 33
 <212> PRT
 <213> Homo sapiens

<400> 254

Met Glu Val Arg Ser Val Ile Pro Gln Val Leu Asn Ala Trp Ala Ser
1 5 10 15

Leu Met Ser Phe Tyr Gln Leu Ser Ala Thr Cys Val Lys Phe His Leu
20 25 30

Ser

<210> 255

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (59)

<220>

<221> UNSURE

<222> (65)

<400> 255

Met Trp Thr Thr Cys Asn Val Thr Lys Gln Lys Glu Thr Gln Glu Ala
1 5 10 15

Asn Ile Pro Ile Tyr Ser Pro Leu Ser Ala Leu Thr Gln Gln Asn Lys
20 25 30

Thr Lys Pro Ala Thr Thr Ile Arg Phe Val Lys Ile Leu Val Val Arg
35 40 45

Ile Pro Thr Leu Ser Ser Gln Gln Phe Gly Xaa Gln Lys Ser Leu Val
50 55 60

Xaa Met Ser Val His Val Lys Ser
65 70

<210> 256

<211> 131

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE
<222> (31)..(93)

<220>
<221> UNSURE
<222> (111)..(121)

<400> 256
Met Tyr Ala Ser Asn Asn Leu Ser Arg Gly Arg Ile Pro Lys Glu Asn
1 5 10 15
Ile Cys Ser Ser Phe Phe Leu Leu Arg Phe Phe Cys Ile Phe Xaa Xaa
20 25 30
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35 40 45
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
50 55 60
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
65 70 75 80
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Thr Val Phe
85 90 95
Pro Leu Leu Ser Tyr Asn Asn Gln His Arg Arg Leu Leu Trp Xaa Gln
100 105 110
Met Trp Gly Asn Phe Phe His Ala Lys Xaa Ala Val Arg Ala Ala Val
115 120 125
Ser Pro Thr
130

<210> 257
<211> 44
<212> PRT
<213> Homo sapiens

<400> 257
Glu Ser Phe Tyr Asp Thr Phe His Thr Val Ala Asp Met Met Tyr Phe
1 5 10 15
Cys Gln Met Leu Ala Val Val Glu Thr Ile Asn Ala Ala Ile Gly Val
20 25 30

Thr Thr Ser Pro Val Leu Pro Ser Leu Ile Gln Val

35

40

<210> 258

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (8)..(52)

<220>

<221> UNSURE

<222> (57)

<400> 258

Met Phe Ile Phe Thr Phe His Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

1

5

10

15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

20

25

30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

35

40

45

Xaa Xaa Xaa Xaa Cys Phe Phe Pro Xaa Trp Phe Leu Leu Phe Leu Leu

50

55

60

Arg Ser Val Ser Phe Cys

65

70

<210> 259

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (16)..(53)

<400> 259

Met Lys Ile Thr Tyr Leu Asp Ile Leu Glu Lys Tyr Ile His Ser Xaa

1

5

10

15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

20

25

30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 35 40 45

Xaa Xaa Xaa Xaa Xaa Glu Ser Thr Gln Ile Gly Pro Glu
 50 55 60

<210> 260

<211> 2383

<212> PRT

<213> Homo sapiens

<400> 260

Met Glu Thr Arg Ser Pro Gly Leu Asn Asn Met Lys Pro Gln Ser Leu
 1 5 10 15

Gln Leu Val Leu Glu Glu Gln Val Leu Ala Leu Gln Gln Gln Met Ala
 20 25 30

Glu Asn Gln Ala Ala Ser Trp Arg Lys Leu Lys Asn Ser Gln Glu Ala
 35 40 45

Gln Gln Arg Gln Ala Thr Leu Val Arg Lys Leu Gln Ala Lys Val Leu
 50 55 60

Gln Tyr Arg Ser Trp Cys Gln Glu Leu Glu Lys Arg Leu Glu Ala Thr
 65 70 75 80

Gly Gly Pro Ile Pro Gln Arg Trp Glu Asn Val Glu Glu Pro Asn Leu
 85 90 95

Asp Glu Leu Leu Val Arg Leu Glu Glu Glu Gln Gln Arg Cys Glu Ser
 100 105 110

Leu Ala Gln Val Asn Thr Gln Leu Arg Leu His Met Glu Lys Ala Asp
 115 120 125

Val Val Asn Lys Ala Leu Arg Glu Asp Val Glu Lys Leu Thr Val Asp
 130 135 140

Trp Ser Arg Ala Arg Asp Glu Leu Met Arg Lys Glu Ser Gln Trp Gln
 145 150 155 160

Met Glu Gln Glu Trp Ser Leu Leu Phe Ser Leu Leu Val Leu Arg Asp
 165 170 175

Leu Met Glu Leu Lys Ala Glu His Val Arg Leu Ser Gly Ser Leu Leu
 180 185 190

Thr Cys Cys Leu Arg Leu Thr Val Gly Ala Gln Ser Arg Glu Pro Asn
 195 200 205

Gly Ser Gly Arg Met Asn Gly Arg Glu Pro Ala Gln Leu Leu Leu Leu
 210 215 220

Leu Ala Lys Thr Gln Glu Leu Glu Lys Glu Ala His Glu Arg Ser Gln
 225 230 235 240

Glu Leu Ile Gln Leu Lys Ser Gln Gly Asp Leu Glu Lys Ala Glu Leu
 245 250 255

Gln Asp Arg Val Thr Glu Leu Ser Ala Leu Leu Thr Gln Ser Gln Lys
 260 265 270

Gln Asn Glu Asp Tyr Glu Lys Met Ile Lys Ala Leu Arg Glu Thr Val
 275 280 285

Glu Ile Leu Glu Thr Asn His Thr Glu Leu Met Glu His Glu Ala Ser
 290 295 300

Leu Ser Arg Asn Ala Gln Glu Glu Lys Leu Ser Leu Gln Gln Val Ile
 305 310 315 320

Lys Asp Ile Thr Gln Val Met Val Glu Glu Gly Asp Asn Ile Ala Gln
 325 330 335

Gly Ser Gly His Glu Asn Ser Leu Glu Leu Asp Ser Ser Ile Phe Ser
 340 345 350

Gln Phe Asp Tyr Gln Asp Ala Asp Lys Ala Leu Thr Leu Val Arg Ser
 355 360 365

Val Leu Thr Arg Arg Arg Gln Ala Val Gln Asp Leu Arg Gln Gln Leu
 370 375 380

Ala Gly Cys Gln Glu Ala Val Asn Leu Leu Gln Gln Gln His Asp Gln
 385 390 395 400

Trp Glu Glu Glu Gly Lys Ala Leu Arg Gln Arg Leu Gln Lys Leu Thr
 405 410 415

Gly Glu Arg Asp Thr Leu Ala Gly Gln Thr Val Asp Leu Gln Gly Glu
 420 425 430

Val	Asp	Ser	Leu	Ser	Lys	Glu	Arg	Glu	Leu	Leu	Gln	Lys	Ala	Arg	Glu			
		435						440					445					
Glu	Leu	Arg	Gln	Gln	Leu	Glu	Val	Leu	Glu	Gln	Glu	Ala	Trp	Arg	Leu			
		450						455				460						
Arg	Arg	Val	Asn	Val	Glu	Leu	Gln	Leu	Gln	Gly	Asp	Ser	Ala	Gln	Gly			
		465					470				475				480			
Gln	Lys	Glu	Glu	Gln	Gln	Glu	Glu	Leu	His	Leu	Ala	Val	Arg	Glu	Arg			
					485					490				495				
Glu	Arg	Leu	Gln	Glu	Met	Leu	Met	Gly	Leu	Glu	Ala	Lys	Gln	Ser	Glu			
					500				505				510					
Ser	Leu	Ser	Glu	Leu	Ile	Thr	Leu	Arg	Glu	Ala	Leu	Glu	Ser	Ser	His			
			515					520					525					
Leu	Glu	Gly	Glu	Leu	Leu	Arg	Gln	Glu	Gln	Thr	Glu	Val	Thr	Ala	Ala			
		530					535					540						
Leu	Ala	Arg	Ala	Glu	Gln	Ser	Ile	Ala	Glu	Leu	Ser	Ser	Ser	Glu	Asn			
		545					550			555					560			
Thr	Leu	Lys	Thr	Glu	Val	Ala	Asp	Leu	Arg	Ala	Ala	Ala	Val	Lys	Leu			
				565					570					575				
Ser	Ala	Leu	Asn	Glu	Ala	Leu	Ala	Leu	Asp	Lys	Val	Gly	Leu	Asn	Gln			
				580					585				590					
Gln	Leu	Leu	Gln	Leu	Glu	Glu	Glu	Asn	Gln	Ser	Val	Cys	Ser	Arg	Met			
				595				600				605						
Glu	Ala	Ala	Glu	Gln	Ala	Arg	Asn	Ala	Leu	Gln	Val	Asp	Leu	Ala	Glu			
				610				615				620						
Ala	Glu	Lys	Arg	Arg	Glu	Ala	Leu	Trp	Glu	Lys	Asn	Thr	His	Leu	Glu			
					625					630		635			640			
Ala	Gln	Leu	Gln	Lys	Ala	Glu	Glu	Ala	Gly	Ala	Glu	Leu	Gln	Ala	Asp			
					645				650					655				
Leu	Arg	Asp	Ile	Gln	Glu	Glu	Lys	Glu	Glu	Ile	Gln	Lys	Lys	Leu	Ser			
				660					665				670					
Glu	Ser	Arg	His	Gln	Gln	Glu	Ala	Ala	Thr	Thr	Gln	Leu	Glu	Gln	Leu			
				675				680					685					

His	Gln	Glu	Ala	Lys	Arg	Gln	Glu	Glu	Val	Leu	Ala	Arg	Ala	Val	Gln	690	695	700	
Glu	Lys	Glu	Ala	Leu	Val	Arg	Glu	Lys	Ala	Ala	Leu	Glu	Val	Arg	Leu	705	710	715	720
Gln	Ala	Val	Glu	Arg	Asp	Arg	Gln	Asp	Leu	Ala	Glu	Gln	Leu	Gln	Gly	725	730	735	
Leu	Ser	Ser	Ala	Lys	Glu	Leu	Leu	Glu	Ser	Ser	Leu	Phe	Glu	Ala	Gln	740	745	750	
Gln	Gln	Asn	Ser	Val	Ile	Glu	Val	Thr	Lys	Gly	Gln	Leu	Glu	Val	Gln	755	760	765	
Ile	Gln	Thr	Val	Thr	Gln	Ala	Lys	Glu	Val	Ile	Gln	Gly	Glu	Val	Arg	770	775	780	
Cys	Leu	Lys	Leu	Glu	Leu	Asp	Thr	Glu	Arg	Ser	Gln	Ala	Glu	Gln	Glu	785	790	795	800
Arg	Asp	Ala	Ala	Ala	Arg	Gln	Leu	Ala	Gln	Ala	Glu	Gln	Glu	Gly	Lys	805	810	815	
Thr	Ala	Leu	Glu	Gln	Gln	Lys	Ala	Ala	His	Glu	Lys	Glu	Val	Asn	Gln	820	825	830	
Leu	Arg	Glu	Lys	Trp	Glu	Lys	Glu	Arg	Ser	Trp	His	Gln	Gln	Glu	Leu	835	840	845	
Ala	Lys	Ala	Leu	Glu	Ser	Leu	Glu	Arg	Glu	Lys	Met	Glu	Leu	Glu	Met	850	855	860	
Arg	Leu	Lys	Glu	Gln	Gln	Thr	Glu	Met	Glu	Ala	Ile	Gln	Ala	Gln	Arg	865	870	875	880
Glu	Glu	Glu	Arg	Thr	Gln	Ala	Glu	Ser	Ala	Leu	Cys	Gln	Met	Gln	Leu	885	890	895	
Glu	Thr	Glu	Lys	Glu	Arg	Val	Ser	Leu	Leu	Glu	Thr	Leu	Leu	Gln	Thr	900	905	910	
Gln	Lys	Glu	Leu	Ala	Asp	Ala	Ser	Gln	Gln	Leu	Glu	Arg	Leu	Arg	Gln	915	920	925	
Asp	Met	Lys	Val	Gln	Lys	Leu	Lys	Glu	Gln	Glu	Thr	Thr	Gly	Ile	Leu	930	935	940	

Gln Thr Gln Leu Gln Glu Ala Gln Arg Glu Leu Lys Glu Ala Ala Arg
 945 950 955 960
 Gln His Arg Asp Asp Leu Ala Ala Leu Gln Glu Glu Ser Ser Ser Leu
 965 970 975
 Leu Gln Asp Lys Met Asp Leu Gln Lys Gln Val Glu Asp Leu Lys Ser
 980 985 990
 Gln Leu Val Ala Gln Asp Asp Ser Gln Arg Leu Val Glu Gln Glu Val
 995 1000 1005
 Gln Glu Lys Leu Arg Glu Thr Gln Glu Tyr Asn Arg Ile Gln Lys Glu
 1010 1015 1020
 Leu Glu Arg Glu Lys Ala Ser Leu Thr Leu Ser Leu Met Glu Lys Glu
 1025 1030 1035 1040
 Gln Arg Leu Leu Val Leu Gln Glu Ala Asp Ser Ile Arg Gln Gln Glu
 1045 1050 1055
 Leu Ser Ala Leu Arg Gln Asp Met Gln Glu Ala Gln Gly Glu Gln Lys
 1060 1065 1070
 Glu Leu Ser Ala Gln Met Glu Leu Leu Arg Gln Glu Val Lys Glu Lys
 1075 1080 1085
 Glu Ala Asp Phe Leu Ala Gln Glu Ala Gln Leu Leu Glu Glu Leu Glu
 1090 1095 1100
 Ala Ser His Ile Thr Glu Gln Gln Leu Arg Ala Ser Leu Trp Ala Gln
 1105 1110 1115 1120
 Glu Ala Lys Ala Ala Gln Leu Gln Leu Arg Leu Arg Ser Thr Glu Ser
 1125 1130 1135
 Gln Leu Glu Ala Leu Ala Ala Glu Gln Gln Pro Gly Asn Gln Ala Gln
 1140 1145 1150
 Ala Gln Ala Gln Leu Ala Ser Leu Tyr Ser Ala Leu Gln Gln Ala Leu
 1155 1160 1165
 Gly Ser Val Cys Glu Ser Arg Pro Glu Leu Ser Gly Gly Gly Asp Ser
 1170 1175 1180
 Ala Pro Ser Val Trp Gly Leu Glu Pro Asp Gln Asn Gly Ala Arg Ser
 1185 1190 1195 1200

Leu Phe Lys Arg Gly Pro Leu Leu Thr Ala Leu Ser Ala Glu Ala Val
 1205 1210 1215
 Ala Ser Ala Leu His Lys Leu His Gln Asp Leu Trp Lys Thr Gln Gln
 1220 1225 1230
 Thr Arg Asp Val Leu Arg Asp Gln Val Gln Lys Leu Glu Glu Arg Leu
 1235 1240 1245
 Thr Asp Thr Glu Ala Glu Lys Ser Gln Val His Thr Glu Leu Gln Asp
 1250 1255 1260
 Leu Gln Arg Gln Leu Ser Gln Asn Gln Glu Glu Lys Ser Lys Trp Glu
 1265 1270 1275 1280
 Gly Lys Gln Asn Ser Leu Glu Ser Glu Leu Met Glu Leu His Glu Thr
 1285 1290 1295
 Met Ala Ser Leu Gln Ser Arg Leu Arg Arg Ala Glu Leu Gln Arg Met
 1300 1305 1310
 Glu Ala Gln Gly Glu Arg Glu Leu Leu Gln Ala Ala Lys Glu Asn Leu
 1315 1320 1325
 Thr Ala Gln Val Glu His Leu Gln Ala Ala Val Val Glu Ala Arg Ala
 1330 1335 1340
 Gln Ala Ser Ala Ala Gly Ile Leu Glu Glu Asp Leu Arg Thr Ala Arg
 1345 1350 1355 1360
 Ser Ala Leu Lys Leu Lys Asn Glu Glu Val Glu Ser Glu Arg Glu Arg
 1365 1370 1375
 Ala Gln Ala Leu Gln Glu Gln Gly Glu Leu Lys Val Ala Gln Gly Lys
 1380 1385 1390
 Ala Leu Gln Glu Asn Leu Ala Leu Leu Thr Gln Thr Leu Ala Glu Arg
 1395 1400 1405
 Glu Glu Glu Val Glu Thr Leu Arg Gly Gln Ile Gln Glu Leu Glu Lys
 1410 1415 1420
 Gln Arg Glu Met Gln Lys Ala Ala Leu Glu Leu Leu Ser Leu Asp Leu
 1425 1430 1435 1440
 Lys Lys Arg Asn Gln Glu Val Asp Leu Gln Gln Glu Gln Ile Gln Glu
 1445 1450 1455

Leu Glu Lys Cys Arg Ser Val Leu Glu His Leu Pro Met Ala Val Gln
 1460 1465 1470
 Glu Arg Glu Gln Lys Leu Thr Val Gln Arg Glu Gln Ile Arg Glu Leu
 1475 1480 1485
 Glu Lys Asp Arg Glu Thr Gln Arg Asn Val Leu Glu His Gln Leu Leu
 1490 1495 1500
 Glu Leu Glu Lys Lys Asp Gln Met Ile Glu Ser Gln Arg Gly Gln Val
 1505 1510 1515 1520
 Gln Asp Leu Lys Lys Gln Leu Val Thr Leu Glu Cys Leu Ala Leu Glu
 1525 1530 1535
 Leu Glu Glu Asn His His Lys Met Glu Cys Gln Gln Lys Leu Ile Lys
 1540 1545 1550
 Glu Leu Glu Gly Gln Arg Glu Thr Gln Arg Val Ala Leu Thr His Leu
 1555 1560 1565
 Thr Leu Asp Leu Glu Glu Arg Ser Gln Glu Leu Gln Ala Gln Ser Ser
 1570 1575 1580
 Gln Ile His Asp Leu Glu Ser His Ser Thr Val Leu Ala Arg Glu Leu
 1585 1590 1595 1600
 Gln Glu Arg Asp Gln Glu Val Lys Ser Gln Arg Glu Gln Ile Glu Glu
 1605 1610 1615
 Leu Gln Arg Gln Lys Glu His Leu Thr Gln Asp Leu Glu Arg Arg Asp
 1620 1625 1630
 Gln Glu Leu Met Leu Gln Lys Glu Arg Ile Gln Val Leu Glu Asp Gln
 1635 1640 1645
 Arg Thr Arg Gln Thr Lys Ile Leu Glu Glu Asp Leu Glu Gln Ile Lys
 1650 1655 1660
 Leu Ser Leu Arg Glu Arg Gly Arg Glu Leu Thr Thr Gln Arg Gln Leu
 1665 1670 1675 1680
 Met Gln Glu Arg Ala Glu Glu Gly Lys Gly Pro Ser Lys Ala Gln Arg
 1685 1690 1695
 Gly Ser Leu Glu His Met Lys Leu Ile Leu Arg Asp Lys Glu Lys Glu
 1700 1705 1710

Val Glu Cys Gln Gln Glu His Ile His Glu Leu Gln Glu Leu Lys Asp
 1715 1720 1725

Gln Leu Glu Gln Gln Leu Gln Gly Leu His Arg Lys Val Gly Glu Thr
 1730 1735 1740

Ser Leu Leu Leu Ser Gln Arg Glu Gln Glu Ile Val Val Leu Gln Gln
 1745 1750 1755 1760

Gln Leu Gln Glu Ala Arg Glu Gln Gly Glu Leu Lys Glu Gln Ser Leu
 1765 1770 1775

Gln Ser Gln Leu Asp Glu Ala Gln Arg Ala Leu Ala Gln Arg Asp Gln
 1780 1785 1790

Glu Leu Glu Ala Leu Gln Gln Glu Gln Gln Gln Ala Gln Gly Gln Glu
 1795 1800 1805

Glu Arg Val Lys Glu Lys Ala Asp Ala Leu Gln Gly Ala Leu Glu Gln
 1810 1815 1820

Ala His Met Thr Leu Lys Glu Arg His Gly Glu Leu Gln Asp His Lys
 1825 1830 1835 1840

Glu Gln Ala Arg Arg Leu Glu Glu Glu Leu Ala Val Glu Gly Arg Arg
 1845 1850 1855

Val Gln Ala Leu Glu Glu Val Leu Gly Asp Leu Arg Ala Glu Ser Arg
 1860 1865 1870

Glu Gln Glu Lys Ala Leu Leu Ala Leu Gln Gln Gln Cys Ala Glu Gln
 1875 1880 1885

Ala Gln Glu His Glu Val Glu Thr Arg Ala Leu Gln Asp Ser Trp Leu
 1890 1895 1900

Gln Ala Gln Ala Val Leu Lys Glu Arg Asp Gln Glu Leu Glu Ala Leu
 1905 1910 1915 1920

Arg Ala Glu Ser Gln Ser Ser Arg His Gln Glu Glu Ala Ala Arg Ala
 1925 1930 1935

Arg Ala Glu Ala Leu Gln Glu Ala Leu Gly Lys Ala His Ala Ala Leu
 1940 1945 1950

Gln Gly Lys Glu Gln His Leu Leu Glu Gln Ala Glu Leu Ser Arg Ser
 1955 1960 1965

Leu Glu Ala Ser Thr Ala Thr Leu Gln Ala Ser Leu Asp Ala Cys Gln
 1970 1975 1980

Ala His Ser Arg Gln Leu Glu Glu Ala Leu Arg Ile Gln Glu Gly Glu
 1985 1990 1995 2000

Ile Gln Asp Gln Asp Leu Arg Tyr Gln Glu Asp Val Gln Gln Leu Gln
 2005 2010 2015

Gln Ala Leu Ala Gln Arg Asp Glu Glu Leu Arg His Gln Gln Glu Arg
 2020 2025 2030

Glu Gln Leu Leu Glu Lys Ser Leu Ala Gln Arg Val Gln Glu Asn Met
 2035 2040 2045

Ile Gln Glu Lys Gln Asn Leu Gly Gln Glu Arg Glu Glu Glu Glu Ile
 2050 2055 2060

Arg Gly Leu His Gln Ser Val Arg Glu Leu Gln Leu Thr Leu Ala Gln
 2065 2070 2075 2080

Lys Glu Gln Glu Ile Leu Glu Leu Arg Glu Thr Gln Gln Arg Asn Asn
 2085 2090 2095

Leu Glu Ala Leu Pro His Ser His Lys Thr Ser Pro Met Glu Glu Gln
 2100 2105 2110

Ser Leu Lys Leu Asp Ser Leu Glu Pro Arg Leu Gln Arg Glu Leu Glu
 2115 2120 2125

Arg Leu Gln Ala Ala Leu Arg Gln Thr Glu Ala Arg Glu Ile Glu Trp
 2130 2135 2140

Arg Glu Lys Ala Gln Asp Leu Ala Leu Ser Leu Ala Gln Thr Lys Ala
 2145 2150 2155 2160

Ser Val Ser Ser Leu Gln Glu Val Ala Met Phe Leu Gln Ala Ser Val
 2165 2170 2175

Leu Glu Arg Asp Ser Glu Gln Gln Arg Leu Gln Asp Glu Leu Glu Leu
 2180 2185 2190

Thr Arg Arg Ala Leu Glu Lys Glu Arg Leu His Ser Pro Gly Ala Thr
 2195 2200 2205

Ser Thr Ala Glu Leu Gly Ser Arg Gly Glu Gln Gly Val Gln Leu Gly
 2210 2215 2220

Glu Val Ser Gly Val Glu Ala Glu Pro Ser Pro Asp Gly Met Glu Lys
2225 2230 2235 2240

Gln Ser Trp Arg Gln Arg Leu Glu His Leu Gln Gln Ala Val Ala Arg
 2245 2250 2255

Leu Glu Ile Asp Arg Ser Arg Leu Gln Arg His Asn Val Gln Leu Arg
 2260 2265 2270

Ser Thr Leu Glu Gln Asp Gly Arg Gly Gln Lys Asn Ser Asp Ala Lys
 2275 2280 2285

Cys Val Ala Glu Leu Gln Lys Glu Val Val Leu Leu Gln Ala Gln Leu
 2290 2295 2300

Thr Leu Glu Arg Lys Gln Lys Gln Asp Tyr Ile Thr Arg Ser Ala Gln
2305 2310 2315 2320

Thr Ser Arg Glu Leu Ala Gly Leu His His Ser Leu Ser His Ser Leu
 2325 2330 2335

Leu Ala Val Ala Gln Ala Pro Glu Ala Thr Val Leu Glu Ala Glu Thr
 2340 2345 2350

Arg Arg Leu Asp Glu Ser Leu Thr Gln Ser Leu Thr Ser Pro Gly Pro
 2355 2360 2365

Val Leu Leu His Pro Ser Pro Ser Thr Thr Gln Ala Ala Ser Arg
 2370 2375 2380

<210> 261
<211> 43
<212> PRT
<213> Homo sapiens

<400> 261
Met Tyr Arg Leu Ile Leu Phe Arg Asn Asn Ser Val Leu Glu Phe Ile
1 5 10 15

Lys Asn Ser Val Ile Ala Phe Ile Pro Lys Cys Leu Thr Leu Pro Thr
 20 25 30

Ala Ser His Lys Ser Ile Tyr Phe Lys Ala Phe
 35 40

<210> 262

<211> 34
<212> PRT
<213> Homo sapiens

<400> 262
Met Asp Pro Asn Phe Asp Ile Val His Thr Val Phe Ile Leu Cys Met
1 5 10 15
Glu Leu Ile Thr Asp Phe Ala Cys Lys Glu Arg Ile Val Cys Leu Asn
20 25 30
Phe Val

<210> 263
<211> 78
<212> PRT
<213> Homo sapiens

<400> 263
Met Met Glu Asn Ser Ala Pro Asn Ser Leu Met Asn Lys Glu Met Asp
1 5 10 15
His Leu Met Asp Glu Gly Val Gln Arg Thr Arg Val Ala Leu Gly Gln
20 25 30
Trp Leu Val Ala Ala Val Ile Gln Asp Leu Gly Ser Val Leu Cys Pro
35 40 45
Leu Pro Pro Ser Val Leu Ala Ser Arg Trp Gln Gly Val Ser Phe Pro
50 55 60
Glu Ser His Gln Leu Arg Gln Asn Pro Glu Ala Gly Lys Thr
65 70 75

<210> 264
<211> 85
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (15)..(72)

<400> 264
Met Gly Ile Tyr Ile Ile Tyr Ser Pro Arg Thr Val Ile Arg Xaa Xaa

1	5	10	15
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa			
20	25	30	
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa			
35	40	45	
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa			
50	55	60	
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Leu Leu Ala Ser Phe Cys Phe Pro			
65	70	75	80
Leu Val Leu Gly Phe			
85			
<210> 265			
<211> 471			
<212> PRT			
<213> Homo sapiens			
<400> 265			
Leu Ser Phe Gln Ser Gly Asn Ile Ile Val Ala Thr Pro Gly Arg Leu			
1	5	10	15
Glu Asp Met Phe Arg Arg Lys Ala Glu Gly Leu Asp Leu Ala Ser Cys			
20	25	30	
Val Arg Ser Leu Asp Val Leu Val Leu Asp Glu Ala Asp Arg Leu Leu			
35	40	45	
Asp Met Gly Phe Glu Ala Ser Ile Asn Thr Ile Leu Glu Phe Leu Pro			
50	55	60	
Lys Gln Arg Arg Thr Gly Leu Phe Ser Ala Thr Gln Thr Gln Glu Val			
65	70	75	80
Glu Asn Leu Val Arg Ala Gly Leu Arg Asn Pro Val Arg Val Ser Val			
85	90	95	
Lys Glu Lys Gly Val Ala Ala Ser Ser Ala Gln Lys Thr Pro Ser Arg			
100	105	110	
Leu Glu Asn Tyr Tyr Met Val Cys Lys Ala Asp Glu Lys Phe Asn Gln			
115	120	125	

Leu Val His Phe Leu Arg Asn His Lys Gln Glu Lys His Leu Val Phe
 130 135 140
 Phe Gly Thr Cys Ala Cys Val Glu Tyr Tyr Gly Lys Ala Leu Glu Val
 145 150 155 160
 Leu Val Lys Gly Val Lys Ile Met Cys Ile His Gly Lys Met Lys Tyr
 165 170 175
 Lys Arg Asn Lys Ile Phe Met Glu Phe Arg Lys Leu Gln Gly Gly Ile
 180 185 190
 Leu Val Cys Thr Asp Val Met Ala Arg Gly Ile Asp Ile Pro Glu Val
 195 200 205
 Asn Trp Val Leu Gln Tyr Asp Pro Pro Ser Asn Ala Ser Ala Phe Val
 210 215 220
 His Arg Cys Gly Arg Thr Ala Arg Ile Gly His Gly Gly Ser Ala Leu
 225 230 235 240
 Val Phe Leu Leu Pro Met Glu Glu Ser Tyr Ile Asn Phe Leu Ala Ile
 245 250 255
 Asn Gln Lys Cys Pro Leu Gln Glu Met Lys Pro Gln Arg Asn Thr Ala
 260 265 270
 Asp Leu Leu Pro Lys Leu Lys Ser Met Ala Leu Ala Asp Arg Ala Val
 275 280 285
 Phe Glu Lys Gly Met Lys Ala Phe Val Ser Tyr Val Gln Ala Tyr Ala
 290 295 300
 Lys His Glu Cys Asn Leu Ile Phe Arg Leu Lys Asp Leu Asp Phe Ala
 305 310 315 320
 Ser Leu Ala Arg Gly Phe Ala Leu Leu Arg Met Pro Lys Met Pro Glu
 325 330 335
 Leu Arg Gly Lys Gln Phe Pro Asp Phe Val Pro Val Asp Val Asn Thr
 340 345 350
 Asp Thr Ile Pro Phe Lys Asp Lys Ile Arg Glu Lys Gln Arg Gln Lys
 355 360 365
 Leu Leu Glu Gln Gln Arg Arg Glu Lys Thr Glu Asn Glu Gly Arg Arg
 370 375 380

Lys Phe Ile Lys Asn Lys Ala Trp Ser Lys Gln Lys Ala Lys Lys Glu
385 390 395 400

Lys Lys Lys Lys Met Asn Glu Lys Arg Lys Arg Glu Glu Gly Ser Asp
405 410 415

Ile Glu Asp Glu Asp Met Glu Glu Leu Leu Asn Asp Thr Arg Leu Leu
420 425 430

Lys Lys Leu Lys Lys Gly Lys Ile Thr Glu Glu Glu Phe Glu Lys Gly
435 440 445

Leu Leu Thr Thr Gly Lys Arg Thr Ile Lys Thr Val Asp Leu Gly Ile
450 455 460

Ser Asp Leu Glu Asp Asp Cys
465 470

<210> 266
<211> 20
<212> PRT
<213> Homo sapiens

<400> 266
Met Met Thr Ser Leu Ser Tyr Ser Ser Gln Ser Trp Lys Pro Cys Ser
1 5 10 15

Gln Ser Phe Lys
20

<210> 267
<211> 27
<212> PRT
<213> Homo sapiens

<400> 267
Met Val Phe Leu Glu Ile Ile Phe Cys Pro Met Tyr Ser Ile Phe Ile
1 5 10 15

His Thr Gly Phe Ile Met Ile Ile Ser Lys
20 25

<210> 268
<211> 55
<212> PRT

<213> Homo sapiens

<400> 268

Met Leu Arg Gly Asp Leu Pro Gly Ser Val Leu Pro Leu Ser Leu Arg
1 5 10 15

Leu Asn Gly Ala Pro Pro Arg Leu Leu Pro Gly Lys Lys His Ser Gly
20 25 30

Gln Ala Gly Pro Glu Pro Val Ser Val Arg Gly Pro Val Ala Cys Pro
35 40 45

Gly Gly Arg Ser Leu Gln Gly
50 55

<210> 269

<211> 38

<212> PRT

<213> Homo sapiens

<400> 269

Met Asn Glu Ala Asn Arg Leu Phe Phe Val Ser Leu Thr Pro Arg Asn
1 5 10 15

Ile Met Ile Pro Tyr Lys Ile Leu Ile His Thr His Asp Gln Tyr Phe
20 25 30

Ile Pro Thr Glu Thr Val
35

<210> 270

<211> 71

<212> PRT

<213> Homo sapiens

<400> 270

Met Leu Thr Leu Val Tyr Leu Val Val Glu Asn Gly Leu Leu Pro Leu
1 5 10 15

Phe Pro Glu Leu Thr Leu Phe Pro Leu Ala Arg Arg Ser Gly Gln Arg
20 25 30

Glu Pro Arg Thr Glu Val Pro Thr Thr Gln Gln Ala Leu Ser Ser Pro
35 40 45

Leu Thr Ser Asn Val Cys Ile His Phe Gln Pro Leu Thr Asp Leu Val

50

55

60

Phe Gln Cys Ile Ile Ile Leu
65 70

<210> 271

<211> 65

<212> PRT

<213> Homo sapiens

<400> 271

Met Glu Glu Ser Lys Ala Gln Arg Arg Arg Glu Thr Thr Trp Ser Val
1 5 10 15

Ser Leu Ser Gln Leu Ile Gln His Pro Thr Asn His Pro Ser His Ser
20 25 30

Leu Ser Ile Ser Leu Val Asn Trp Ser Thr Ile Cys Asn Cys Ser Gln
35 40 45

Val Pro Pro Asn Ser Leu Cys Arg Tyr Phe Ser Cys Val Phe His Ser
50 55 60

Leu
65

<210> 272

<211> 25

<212> PRT

<213> Homo sapiens

<400> 272

Met Val Pro Ile Ile Ser Tyr Val Lys Met Ser Cys Tyr Glu Lys Leu
1 5 10 15

Phe Leu Phe Gln Ser Cys Gln Cys Gln
20 25

<210> 273

<211> 13

<212> PRT

<213> Homo sapiens

<400> 273

Met Leu Leu Ser Tyr Ser Ala Gln Glu Tyr Leu Ser Lys

1

5

10

<210> 274

<211> 73

<212> PRT

<213> Homo sapiens

<400> 274

Met Lys Cys Val Ser Glu His Gln Arg Pro Ser Ile Leu Pro Leu Pro

1

5

10

15

Phe Leu Val Val Tyr Lys Asn Ser Arg Leu Glu Glu Phe Arg Phe Val

20

25

30

Ala His Phe Phe Pro Gln His Phe Phe Leu Leu Phe Phe Lys Met Tyr

35

40

45

Cys Leu Phe Pro His Ser Val Thr Leu Asp Ile Gly Ile Phe Asn Cys

50

55

60

Val Ile Phe Cys Cys Lys Lys Gly Lys

65

70

<210> 275

<211> 465

<212> PRT

<213> Homo sapiens

<400> 275

Met Leu Gly Ser Met Ala Arg Lys Lys Pro Arg Asn Thr Ser Arg Leu

1

5

10

15

Pro Leu Ala Leu Asn Pro Leu Lys Ser Lys Asp Val Leu Ala Val Leu

20

25

30

Ala Glu Arg Asn Glu Ala Ile Val Pro Val Gly Ala Trp Val Glu Pro

35

40

45

Ala Ser Pro Gly Ser Ser Glu Ile Pro Ala Tyr Thr Ser Ala Tyr Leu

50

55

60

Ile Glu Glu Glu Leu Lys Glu Gln Leu Arg Lys Lys Gln Glu Ala Leu

65

70

75

80

Lys His Phe Gln Lys Gln Val Lys Tyr Arg Val Asn Gln Gln Ile Arg

85

90

95

Leu	Arg	Lys	Lys	Gln	Gln	Leu	Gln	Lys	Ser	Tyr	Glu	Arg	Ala	Gln	Lys	100	105	110	
Glu	Gly	Ser	Ile	Ala	Met	Gln	Ser	Ser	Ala	Thr	His	Leu	Thr	Ser	Lys	115	120	125	
Arg	Thr	Ser	Val	Phe	Pro	Asn	Asn	Leu	Asn	Val	Ala	Ile	Gly	Ser	Ser	130	135	140	
Arg	Leu	Pro	Pro	Ser	Leu	Met	Pro	Gly	Asp	Gly	Ile	Glu	Asp	Glu	Glu	145	150	155	160
Asn	Gln	Asn	Glu	Leu	Phe	Gln	Gln	Gln	Ala	Gln	Ala	Leu	Ser	Glu	Thr	165	170	175	
Met	Lys	Gln	Ala	Arg	His	Arg	Leu	Ala	Ser	Phe	Lys	Thr	Val	Ile	Lys	180	185	190	
Lys	Lys	Gly	Ser	Val	Phe	Pro	Asp	Asp	Gly	Arg	Lys	Ser	Phe	Leu	Thr	195	200	205	
Arg	Glu	Glu	Val	Leu	Ser	Arg	Lys	Pro	Ala	Ser	Thr	Gly	Ile	Asn	Thr	210	215	220	
Gly	Ile	Arg	Gly	Glu	Leu	Pro	Ile	Lys	Val	His	Gln	Gly	Leu	Leu	Ala	225	230	235	240
Ala	Val	Pro	Tyr	Gln	Asn	Tyr	Met	Glu	Asn	Gln	Glu	Leu	Asp	Tyr	Glu	245	250	255	
Glu	Pro	Asp	Tyr	Glu	Glu	Ser	Ser	Ser	Leu	Val	Thr	Asp	Glu	Lys	Gly	260	265	270	
Lys	Glu	Asp	Leu	Phe	Gly	Arg	Gly	Gln	Gln	Asp	Gln	Gln	Ala	Ile	His	275	280	285	
Ser	Glu	Asp	Lys	Asn	Lys	Pro	Phe	Ser	Arg	Val	Gln	Lys	Val	Lys	Phe	290	295	300	
Lys	Asn	Pro	Leu	Phe	Val	Leu	Met	Glu	Glu	Glu	Glu	Gln	Lys	Gln	Leu	305	310	315	320
His	Phe	Glu	Gly	Leu	Gln	Asp	Ile	Leu	Pro	Glu	Ala	Gln	Asp	Tyr	Phe	325	330	335	
Leu	Glu	Ala	Gln	Gly	Asp	Leu	Leu	Glu	Thr	Gln	Gly	Asp	Leu	Thr	Gly	340	345	350	

Ile Gln Ser Val Lys Pro Asp Thr Gln Ala Val Glu Met Lys Val Gln
355 360 365

Val Thr Glu Pro Glu Gly Gln Ala Ile Glu Pro Glu Gly Gln Pro Ile
370 375 380

Lys Thr Glu Thr Gln Gly Ile Met Leu Lys Ala Gln Ser Ile Glu Leu
385 390 395 400

Glu Glu Gly Ser Ile Val Leu Lys Thr Gln Asp Phe Leu Pro Thr Asn
405 410 415

Gln Ala Leu Leu Thr Lys Asn Gln Asp Val Leu Leu Lys Asp His Cys
420 425 430

Val Leu Pro Lys Asp Gln Ser Ile Leu Leu Lys Tyr Gln Asp Gln Asp
435 440 445

Phe Leu Pro Arg Asp Gln His Val Leu His Lys Asp Gln Asp Ile Leu
450 455 460

Pro
465

<210> 276
<211> 38
<212> PRT
<213> Homo sapiens

<400> 276
Met Asn Lys Gln Lys Ile Lys Met Phe Arg Met Lys Ile Leu Leu Lys
1 5 10 15

Trp Ser Leu Glu Ile Thr Val Met Ser Ala Leu Gly Ile Glu Ser Arg
20 25 30

Ile Asn Ser Gln Ile Pro
35

<210> 277
<211> 170
<212> PRT
<213> Homo sapiens

<400> 277

Met Asp Ile Glu Arg Glu Gln Val Lys Glu Gln Gln Arg Gln Lys Glu
1 5 10 15

Gln Lys Lys Lys Ile Glu Lys Ile Lys Lys Lys Arg Glu Gln Glu Cys
20 25 30

Tyr Ala Ala Glu Gln Arg Ile Leu Arg Met Asn Phe His Glu Asp Pro
35 40 45

Tyr Ser Gly Glu Lys Leu Ser Glu Ile Leu Ala Gln Leu Gln Leu Gln
50 55 60

Glu Ile Lys Gly Thr Arg Glu Lys Gln Gln Arg Glu Lys Glu Tyr Leu
65 70 75 80

Arg Tyr Val Glu Ala Leu Arg Ala Gln Ile Gln Glu Lys Met Gln Leu
85 90 95

Tyr Asn Ile Thr Leu Pro Pro Leu Cys Cys Cys Gly Pro Asp Phe Trp
100 105 110

Asp Ala His Pro Asp Thr Cys Ala Asn Asn Cys Ile Phe Tyr Lys Asn
115 120 125

His Arg Ala Tyr Thr Arg Ala Leu His Ser Phe Ile Asn Ser Cys Asp
130 135 140

Val Pro Gly Gly Asn Ser Thr Leu Arg Val Ala Ile His Asn Phe Ala
145 150 155 160

Ser Ala His Arg Arg Thr Leu Lys Asn Leu
165 170

<210> 278

<211> 173

<212> PRT

<213> Homo sapiens

<400> 278

Ala Tyr Asp Arg Tyr Gln Ser Gly Leu Ser Thr Glu Phe Gln Ala Pro
1 5 10 15

Leu Ala Phe Gln Ser Asp Val Asp Lys Glu Glu Asp Lys Lys Glu Arg
20 25 30

Gln Lys Gln Tyr Leu Arg His Arg Arg Leu Phe Met Asp Ile Glu Arg
35 40 45

150

Glu Gln Val Lys Glu Gln Gln Arg Gln Lys Glu Gln Lys Lys Lys Ile
50 55 60

Glu Lys Ile Lys Lys Lys Arg Glu Gln Glu Cys Tyr Ala Ala Glu Gln
65 70 75 80

Arg Ile Leu Arg Met Asn Phe His Glu Asp Pro Tyr Ser Gly Glu Lys
85 90 95

Leu Ser Glu Ile Leu Ala Gln Leu Gln Leu Glu Ile Lys Gly Thr
100 105 110

Arg Glu Lys Gln Gln Arg Glu Lys Glu Tyr Leu Arg Tyr Val Glu Ala
115 120 125

Leu Arg Ala Gln Ile Gln Glu Lys Met Gln Leu Tyr Asn Ile Thr Leu
130 135 140

Pro Pro Leu Cys Cys Cys Gly Pro Asp Phe Trp Asp Ala His Pro Asp
145 150 155 160

Thr Cys Ala Asn Asn Cys Ile Phe Tyr Lys Asn His Arg
165 170

<210> 279

<211> 15

<212> PRT

<213> Homo sapiens

<400> 279

Met Ile Ser Arg Ile Leu Pro Phe Ile Tyr Ser Thr Ser Ile Arg
1 5 10 15

<210> 280

<211> 11

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (8)

<400> 280

Met Asp Thr Gly Leu Phe Phe Xaa Gly Ala Gly
1 5 10

<210> 281
 <211> 86
 <212> PRT
 <213> Homo sapiens

<400> 281
 Met Ala Val Ser Leu Phe Leu Ser Ala Asp Pro Ser Met Thr Leu Ile
 1 5 10 15
 Arg Phe Pro Phe Ser Tyr Asn Ser Cys Pro Trp Ile Gln Trp Pro Ser
 20 25 30
 Phe Phe Ser Phe Ala Leu Phe Ser Val Thr Val His His Ile Phe Tyr
 35 40 45
 Thr Ala Val Asp Val Ile Tyr Ser Asn Asp Val Pro Val Pro Phe Val
 50 55 60
 Cys Leu Phe Leu Glu Thr Pro Ser Gly Ala Phe His Leu Pro Gly Ser
 65 70 75 80
 Asn Leu Asp Trp Leu Leu
 85

<210> 282
 <211> 1339
 <212> PRT
 <213> Homo sapiens

<400> 282
 Met Ala Val Tyr Cys Tyr Ala Leu Asn Ser Leu Val Ile Met Asn Ser
 1 5 10 15
 Ala Asn Glu Met Lys Ser Gly Gly Gly Pro Gly Pro Ser Gly Ser Glu
 20 25 30
 Thr Pro Pro Pro Pro Arg Arg Ala Val Leu Ser Pro Gly Ser Val Phe
 35 40 45
 Ser Pro Gly Arg Gly Ala Ser Phe Leu Phe Pro Pro Ala Glu Ser Leu
 50 55 60
 Ser Pro Glu Glu Pro Arg Ser Pro Gly Gly Trp Arg Ser Gly Arg Arg
 65 70 75 80

Arg Leu Asn Ser Ser Ser Gly Ser Gly Ser Gly Ser Ser Gly Ser Ser
 85 90 95

Val Ser Ser Pro Ser Trp Ala Gly Arg Leu Arg Gly Asp Arg Gln Gln
 100 105 110

Val Val Ala Ala Gly Thr Leu Ser Pro Pro Gly Pro Glu Glu Ala Lys
 115 120 125

Arg Lys Leu Arg Ile Leu Gln Arg Glu Leu Gln Asn Val Gln Val Asn
 130 135 140

Gln Lys Val Gly Met Phe Glu Ala His Ile Gln Ala Gln Ser Ser Ala
 145 150 155 160

Ile Gln Ala Pro Arg Ser Pro Arg Leu Gly Arg Ala Arg Ser Pro Ser
 165 170 175

Pro Cys Pro Phe Arg Ser Ser Ser Gln Pro Pro Gly Arg Val Leu Val
 180 185 190

Gln Gly Ala Arg Ser Glu Glu Arg Arg Thr Lys Ser Trp Gly Glu Gln
 195 200 205

Cys Pro Glu Thr Ser Gly Thr Asp Ser Gly Arg Lys Gly Gly Pro Ser
 210 215 220

Leu Cys Ser Ser Gln Val Lys Lys Gly Met Pro Pro Leu Pro Gly Arg
 225 230 235 240

Ala Ala Pro Thr Gly Ser Glu Ala Gln Gly Pro Ser Ala Phe Val Arg
 245 250 255

Met Glu Lys Gly Ile Pro Ala Ser Pro Arg Cys Gly Ser Pro Thr Ala
 260 265 270

Met Glu Ile Asp Lys Arg Gly Ser Pro Thr Pro Gly Thr Arg Ser Cys
 275 280 285

Leu Ala Pro Ser Leu Gly Leu Phe Gly Ala Ser Leu Thr Met Ala Thr
 290 295 300

Glu Val Ala Ala Arg Val Thr Ser Thr Gly Pro His Arg Pro Gln Asp
 305 310 315 320

Leu Ala Leu Thr Glu Pro Ser Gly Arg Ala Arg Glu Leu Glu Asp Leu
 325 330 335

Gln Pro Pro Glu Ala Leu Val Glu Arg Gln Gly Gln Phe Leu Gly Ser
 340 345 350
 Glu Thr Ser Pro Ala Pro Glu Arg Gly Gly Pro Arg Asp Gly Glu Pro
 355 360 365
 Pro Gly Lys Met Gly Lys Gly Tyr Leu Pro Cys Gly Met Pro Gly Ser
 370 375 380
 Gly Glu Pro Glu Val Gly Lys Arg Pro Glu Glu Thr Thr Val Ser Val
 385 390 395 400
 Gln Ser Ala Glu Ser Ser Asp Ser Leu Ser Trp Ser Arg Leu Pro Arg
 405 410 415
 Ala Leu Ala Ser Val Gly Pro Glu Glu Ala Arg Ser Gly Ala Pro Val
 420 425 430
 Gly Gly Gly Arg Trp Gln Leu Ser Asp Arg Val Glu Gly Gly Ser Pro
 435 440 445
 Thr Leu Gly Leu Leu Gly Gly Ser Pro Ser Ala Gln Pro Gly Thr Gly
 450 455 460
 Asn Val Glu Ala Gly Ile Pro Ser Gly Arg Met Leu Glu Pro Leu Pro
 465 470 475 480
 Cys Trp Asp Ala Ala Lys Asp Leu Lys Glu Pro Gln Cys Pro Pro Gly
 485 490 495
 Asp Arg Val Gly Val Gln Pro Gly Asn Ser Arg Val Trp Gln Gly Thr
 500 505 510
 Met Glu Lys Ala Gly Leu Ala Trp Thr Arg Gly Thr Gly Val Gln Ser
 515 520 525
 Glu Gly Thr Trp Glu Ser Gln Arg Gln Asp Ser Asp Ala Leu Pro Ser
 530 535 540
 Pro Glu Leu Leu Pro Gln Asp Pro Asp Lys Pro Phe Leu Arg Lys Ala
 545 550 555 560
 Cys Ser Pro Ser Asn Ile Pro Ala Val Ile Ile Thr Asp Met Gly Thr
 565 570 575
 Gln Glu Asp Gly Ala Leu Glu Glu Thr Gln Gly Ser Pro Arg Gly Asn
 580 585 590

Leu Pro Leu Arg Lys Leu Ser Ser Ser Ser Ala Ser Ser Thr Gly Phe
 595 600 605
 Ser Ser Ser Tyr Glu Asp Ser Glu Glu Asp Ile Ser Ser Asp Pro Glu
 610 615 620
 Arg Thr Leu Asp Pro Asn Ser Ala Phe Leu His Thr Leu Asp Gln Gln
 625 630 635 640
 Lys Pro Arg Val Lys Tyr Arg Thr Ile Trp Lys Val Lys Asn Lys Glu
 645 650 655
 Arg Glu Ser Ser Pro Gly Asn Ala Ser Leu Leu Leu Ile Pro Val Thr
 660 665 670
 Ala Ala Thr Gly Ile Arg Val Leu Gly Leu Gly Leu Gly Asp Leu Gly
 675 680 685
 Glu Ile Pro Val Tyr Thr Trp Leu Ala Ser Ser Leu Lys Asn Gly Glu
 690 695 700
 Ser Lys Cys Asp Leu Met Glu Trp Tyr Cys Tyr Thr Val Lys His Pro
 705 710 715 720
 Gly Ser Leu Glu Leu His Gly Leu Arg Met Ser Pro Thr Gly Thr Ser
 725 730 735
 Cys Cys Gly Leu Ile Met Ser Ala Pro Lys Gln Glu Leu Asn Ala Ile
 740 745 750
 Glu Leu Ser Tyr Leu Pro Pro Ala Pro Ile Val Val Val Arg Lys Ser
 755 760 765
 Gly Phe Ser Ala Gln Gln Ser Ala Trp Asp Cys Ile Lys Pro Ser Ser
 770 775 780
 Pro Ile Arg Asp Arg Val Ala Leu Leu Cys Pro Met Gly Phe Lys Ala
 785 790 795 800
 Lys Gly Leu Tyr Glu Ser Cys Leu Trp His Ser Pro Glu Ser Ser Gly
 805 810 815
 Ile Arg Gln Lys Gln Cys Cys Ala Ala Leu Ser Trp Ala Leu Lys Gly
 820 825 830
 Lys Arg Glu Tyr Leu Gln Gln Tyr Ser Gly Trp Met Trp Val Pro Gly
 835 840 845

Leu Leu Ile Leu Gly Leu Gly Leu Ser Glu Ile His Arg Ser Ser Leu
 850 855 860

Gln Val Gln Pro Ala Gly Gly Val His Thr Glu Ala Ala Ala Pro Gly
 865 870 875 880

Ala Pro Gly His Gln Gly Ala Met Ser Val Thr Tyr Asp Ala Leu Arg
 885 890 895

Glu Lys Gln Gln Leu Ser Lys Val Gly Asp Leu Pro Ala Leu Thr Trp
 900 905 910

Pro Gly Pro Leu Ile Ser Gln Met Pro Gly Val Leu Asp Ser Cys Arg
 915 920 925

Leu Cys Ser Leu Gly Asp Ile Glu Lys Ser Lys Ser Trp Arg Lys Ile
 930 935 940

Lys Asn Met Val His Trp Ser Pro Phe Val Met Ser Phe Lys Lys Lys
 945 950 955 960

Tyr Pro Trp Ile Gln Leu Ala Gly His Ala Gly Ser Phe Lys Ala Ala
 965 970 975

Ala Asn Gly Arg Ile Leu Lys Lys His Cys Glu Ser Glu Gln Arg Cys
 980 985 990

Leu Asp Arg Leu Met Val Asp Val Leu Arg Pro Phe Val Pro Ala Tyr
 995 1000 1005

His Gly Asp Val Val Lys Asp Gly Glu Arg Tyr Asn Gln Met Asp Asp
 1010 1015 1020

Leu Leu Ala Asp Phe Asp Ser Pro Cys Val Met Asp Cys Lys Met Gly
 1025 1030 1035 1040

Ile Arg Gln Gln Gln Asp Phe Ala Gly Asp His Met Glu Asn Asn Pro
 1045 1050 1055

Ser Gly Val His Ser Asp Leu Ala Lys Lys Ala Gly Glu Cys Gly Glu
 1060 1065 1070

Gly Leu Ser Leu Thr Phe Leu Trp Ala Ser Arg Pro Thr Ile Gln Leu
 1075 1080 1085

Ala Pro Pro Val Asp Ile Ser Pro Gln Pro Leu Ser Ser Pro Gly Gln
 1090 1095 1100

Thr Tyr Leu Glu Glu Glu Leu Thr Lys Ala Arg Lys Lys Pro Ser Leu
 1105 1110 1115 1120

Arg Lys Asp Met Tyr Gln Lys Met Ile Glu Val Asp Pro Glu Ala Pro
 1125 1130 1135

Thr Glu Glu Glu Lys Ala Gln Arg Ala Val Thr Lys Pro Arg Tyr Met
 1140 1145 1150

Gln Trp Arg Glu Thr Ile Ser Ser Thr Ala Thr Leu Gly Phe Arg Ile
 1155 1160 1165

Glu Gly Ile Lys Leu Arg Gly Ser Ala Trp Gly Ala Leu Pro Thr Ala
 1170 1175 1180

Pro Gly Ser Arg Pro Leu Leu His Pro Gly Leu Leu Pro Gln Pro Gln
 1185 1190 1195 1200

Val Leu Pro Val Leu Ser Lys Ala Ala Thr Lys Glu Asp Gly Thr Val
 1205 1210 1215

Asn Arg Asp Phe Lys Lys Thr Lys Thr Arg Glu Gln Val Thr Glu Ala
 1220 1225 1230

Phe Arg Glu Phe Thr Lys Gly Asn His Asn Ile Leu Ile Ala Tyr Arg
 1235 1240 1245

Asp Arg Leu Lys Ala Ile Arg Thr Thr Leu Glu Val Ser Pro Phe Phe
 1250 1255 1260

Lys Cys His Glu Val Ile Gly Ser Ser Leu Leu Phe Ile His Asp Lys
 1265 1270 1275 1280

Lys Glu Gln Ala Lys Val Trp Met Ile Asp Phe Gly Lys Thr Thr Pro
 1285 1290 1295

Leu Pro Glu Gly Gln Thr Leu Gln His Asp Val Pro Trp Gln Glu Gly
 1300 1305 1310

Asn Arg Glu Asp Gly Tyr Leu Ser Gly Leu Asn Asn Leu Val Asp Ile
 1315 1320 1325

Leu Thr Glu Met Ser Gln Asp Ala Pro Leu Ala
 1330 1335